



Docket No.: PF-0509 USN

Certificate of Mailing

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Box PCT, Commissioner for Patents, P.O. Box 2327, Arlington, VA 22202 on September 20, 2002.

By: 

Printed: Margaret M. Hasson

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Hillman et al.

Title: HUMAN TRANSCRIPTIONAL REGULATOR MOLECULES

Serial No.: 09/674,743

Filing Date: January 16, 2002

Examiner: To Be Assigned

Group Art Unit: To Be Assigned

Box PCT

Commissioner for Patents, PO Box 2327
Arlington, VA 22202

RECEIVED

OCT - 2 2002

**SECOND SUBSTITUTE SUBMISSION
UNDER 37 CFR §1.821- 1.825 SEQUENCE LISTING**

TC 1700

Sir:

In accordance with the requirements of 37 CFR § 1.821-1.825, Applicants hereby submit one (1) substitute diskette containing the computer-readable information for the Substitute Sequence Listing of the above-identified application. The diskette complies with the requirements of 37 CFR § 1.824 and is IBM PC compatible using a Windows NT Operating System with WordPerfect software and saved in ASCII text format.

Enclosed is a paper copy of the Substitute Sequence Listing.

The content of the Substitute Sequence Listing paper copy is identical to the computer-readable copy, as required under 37 CFR § 1.821(f). This submission contains no new matter.

Respectfully submitted,

INCYTE GENOMICS, INC.

Date: 20 Sept 2002



Diana Hamlet-Cox

Reg. No. 33,302

Direct Dial Telephone: (650) 845-4639

3160 Porter Drive
Palo Alto, California 94304
Phone: (650) 855-0555
Fax: (650) 849-8886

PF-0509 USN

<110> HILLMAN, Jennifer L.
BANDMAN, Olga
LAL, Preeti
YUE, Henry
REDDY, Roopa
TANG, Y. Tom
GERSTIN, Edward H.
ARVIZU, Chandra
BAUGHN, Mariah R.
AZIMZAI, Yalda
LU, Dyung Aina M.

<120> Human Transcriptional Regulator Molecules

<130> PF-0509 USN

<140> 09/674,743

<141> 2002-01-16

<150> PCT/US99/09935

<151> 1999-05-04

<150> 60/084,254

<151> 1998-05-04

<150> 60/095,827

<151> 1998-08-07

<150> 60/102,745

<151> 1998-10-02

<160> 130

<170> PERL Program

<210> 1

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 001106CD1

<400> 1

Met	Val	Ala	Arg	Lys	Gly	Gln	Lys	Ser	Pro	Arg	Phe	Arg	Arg	Val
1				5				10						15
Ser	Cys	Phe	Leu	Arg	Leu	Gly	Arg	Ser	Thr	Leu	Leu	Glu	Leu	Glu
			20					25						30
Pro	Ala	Gly	Arg	Pro	Cys	Ser	Gly	Arg	Thr	Arg	His	Arg	Ala	Leu
			35					40						45
His	Arg	Arg	Leu	Val	Ala	Cys	Val	Thr	Val	Ser	Ser	Arg	Arg	His
			50					55						60
Arg	Lys	Glu	Ala	Gly	Arg	Gly	Arg	Ala	Glu	Ser	Phe	Ile	Ala	Val
			65					70						75

PF-0509 USN

Gly	Met	Ala	Ala	Pro	Ser	Met	Lys	Glu	Arg	Gln	Val	Cys	Trp	Gly	
				80					85					90	
Ala	Arg	Asp	Glu	Tyr	Trp	Lys	Cys	Leu	Asp	Glu	Asn	Leu	Glu	Asp	
				95					100					105	
Ala	Ser	Gln	Cys	Lys	Lys	Leu	Arg	Ser	Ser	Phe	Glu	Ser	Ser	Cys	
				110					115					120	
Pro	Gln	Gln	Trp	Ile	Lys	Tyr	Phe	Asp	Lys	Arg	Arg	Asp	Tyr	Leu	
				125					130					135	
Lys	Phe	Lys	Glu	Lys	Phe	Glu	Ala	Gly	Gln	Phe	Glu	Pro	Ser	Glu	
				140					145					150	
Thr	Thr	Ala	Lys	Ser											
				155											

<210> 2

<211> 152

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 004586CD1

<400> 2

Met	Leu	Ser	Thr	Leu	Ser	Gln	Cys	Glu	Phe	Ser	Met	Gly	Lys	Thr	
1				5					10					15	
Leu	Leu	Val	Tyr	Asp	Met	Asn	Leu	Arg	Glu	Met	Glu	Asn	Tyr	Glu	
				20					25					30	
Lys	Ile	Tyr	Lys	Glu	Ile	Glu	Cys	Ser	Ile	Ala	Gly	Ala	His	Glu	
				35					40					45	
Lys	Ile	Ala	Glu	Cys	Lys	Lys	Gln	Ile	Leu	Gln	Ala	Lys	Arg	Ile	
				50					55					60	
Arg	Lys	Asn	Arg	Gln	Glu	Tyr	Asp	Ala	Leu	Ala	Lys	Val	Ile	Gln	
				65					70					75	
His	His	Pro	Asp	Arg	His	Glu	Thr	Leu	Lys	Glu	Leu	Glu	Ala	Leu	
				80					85					90	
Gly	Lys	Glu	Leu	Glu	His	Leu	Ser	His	Ile	Lys	Glu	Ser	Val	Glu	
				95					100					105	
Asp	Lys	Leu	Glu	Leu	Arg	Arg	Lys	Gln	Phe	His	Val	Leu	Leu	Ser	
				110					115					120	
Thr	Ile	His	Glu	Leu	Gln	Gln	Thr	Leu	Glu	Asn	Asp	Glu	Lys	Leu	
				125					130					135	
Ser	Glu	Val	Glu	Glu	Ala	Gln	Glu	Ala	Ser	Met	Glu	Thr	Asp	Pro	
				140					145					150	
Lys	Pro														

<210> 3

<211> 304

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 052927CD1

PF-0509 USN

<400> 3

Met	Ala	Glu	Ala	Ser	Ala	Ala	Gly	Ala	Asp	Ser	Gly	Ala	Ala	Val	
1				5					10					15	
Ala	Ala	His	Arg	Phe	Phe	Cys	His	Phe	Cys	Lys	Gly	Glu	Val	Ser	
				20					25					30	
Pro	Lys	Leu	Pro	Glu	Tyr	Ile	Cys	Pro	Arg	Cys	Glu	Ser	Gly	Phe	
				35					40					45	
Ile	Glu	Glu	Val	Thr	Asp	Asp	Ser	Ser	Phe	Leu	Gly	Gly	Gly	Gly	
				50					55					60	
Ser	Arg	Ile	Asp	Asn	Thr	Thr	Thr	Thr	His	Phe	Ala	Glu	Leu	Trp	
				65					70					75	
Gly	His	Leu	Asp	His	Thr	Met	Phe	Phe	Gln	Asp	Phe	Arg	Pro	Phe	
				80					85					90	
Leu	Ser	Ser	Ser	Pro	Leu	Asp	Gln	Asp	Asn	Arg	Ala	Asn	Glu	Arg	
				95					100					105	
Gly	His	Gln	Thr	His	Thr	Asp	Phe	Trp	Gly	Ala	Arg	Pro	Pro	Arg	
				110					115					120	
Leu	Pro	Leu	Gly	Arg	Arg	Tyr	Arg	Ser	Arg	Gly	Ser	Ser	Arg	Pro	
				125					130					135	
Asp	Arg	Ser	Pro	Ala	Ile	Glu	Gly	Ile	Leu	Gln	His	Ile	Phe	Ala	
				140					145					150	
Gly	Phe	Phe	Ala	Asn	Ser	Ala	Ile	Pro	Gly	Ser	Pro	His	Pro	Phe	
				155					160					165	
Ser	Trp	Ser	Gly	Met	Leu	His	Ser	Asn	Pro	Gly	Asp	Tyr	Ala	Trp	
				170					175					180	
Gly	Gln	Thr	Gly	Leu	Asp	Ala	Ile	Val	Thr	Gln	Leu	Leu	Gly	Gln	
				185					190					195	
Leu	Glu	Asn	Thr	Gly	Pro	Pro	Pro	Ala	Asp	Lys	Glu	Lys	Ile	Thr	
				200					205					210	
Ser	Leu	Pro	Thr	Val	Thr	Val	Thr	Gln	Glu	Gln	Val	Asp	Met	Gly	
				215					220					225	
Leu	Glu	Cys	Pro	Val	Cys	Lys	Glu	Asp	Tyr	Thr	Val	Glu	Glu	Glu	
				230					235					240	
Val	Arg	Gln	Leu	Pro	Cys	Asn	His	Phe	Phe	His	Ser	Ser	Cys	Ile	
				245					250					255	
Val	Pro	Trp	Leu	Glu	Leu	His	Asp	Thr	Cys	Pro	Val	Cys	Arg	Lys	
				260					265					270	
Ser	Leu	Asn	Gly	Glu	Asp	Ser	Thr	Arg	Gln	Ser	Gln	Ser	Thr	Glu	
				275					280					285	
Ala	Ser	Ala	Ser	Asn	Arg	Phe	Ser	Asn	Asp	Ser	Gln	Leu	His	Asp	
				290					295					300	
Arg	Trp	Thr	Phe												

<210> 4

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 082843CD1

<400> 4

PF-0509 USN

Met	Pro	Lys	Ala	Lys	Gly	Lys	Thr	Arg	Arg	Gln	Lys	Phe	Gly	Tyr	
1				5					10					15	
Ser	Val	Asn	Arg	Lys	Arg	Leu	Asn	Arg	Asn	Ala	Arg	Arg	Lys	Ala	
				20					25					30	
Ala	Pro	Arg	Ile	Glu	Cys	Ser	His	Ile	Arg	His	Ala	Trp	Asp	His	
				35					40					45	
Ala	Lys	Ser	Val	Arg	Gln	Asn	Leu	Ala	Glu	Met	Gly	Leu	Ala	Val	
				50					55					60	
Asp	Pro	Asn	Arg	Ala	Val	Pro	Leu	Arg	Lys	Arg	Lys	Val	Lys	Ala	
				65					70					75	
Met	Glu	Val	Asp	Ile	Glu	Glu	Arg	Pro	Lys	Glu	Leu	Val	Arg	Lys	
				80					85					90	
Pro	Tyr	Val	Leu	Asn	Asp	Leu	Glu	Ala	Glu	Ala	Ser	Leu	Pro	Glu	
				95					100					105	
Lys	Lys	Gly	Asn	Thr	Leu	Ser	Arg	Asp	Leu	Ile	Asp	Tyr	Val	Arg	
				110					115					120	
Tyr	Met	Val	Glu	Asn	His	Gly	Glu	Asp	Tyr	Lys	Ala	Met	Ala	Arg	
				125					130					135	
Asp	Glu	Lys	Asn	Tyr	Tyr	Gln	Asp	Thr	Pro	Lys	Gln	Ile	Arg	Ser	
				140					145					150	
Lys	Ile	Asn	Val	Tyr	Lys	Arg	Phe	Tyr	Pro	Ala	Glu	Trp	Gln	Asp	
				155					160					165	
Phe	Leu	Asp	Ser	Leu	Gln	Lys	Arg	Lys	Met	Glu	Val	Glu			
				170					175						

<210> 5

<211> 301

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 322349CD1

<400> 5

Met	Ala	Arg	His	Gly	Leu	Pro	Leu	Leu	Pro	Leu	Leu	Ser	Leu	Leu	
1				5					10					15	
Val	Gly	Ala	Trp	Leu	Lys	Leu	Gly	Asn	Gly	Gln	Ala	Thr	Ser	Met	
				20					25					30	
Val	Gln	Leu	Gln	Gly	Gly	Arg	Phe	Leu	Met	Gly	Thr	Asn	Ser	Pro	
				35					40					45	
Asp	Ser	Arg	Asp	Gly	Glu	Gly	Pro	Val	Arg	Glu	Ala	Thr	Val	Lys	
				50					55					60	
Pro	Phe	Ala	Ile	Asp	Ile	Phe	Pro	Val	Thr	Asn	Lys	Asp	Phe	Arg	
				65					70					75	
Asp	Phe	Val	Arg	Glu	Lys	Lys	Tyr	Arg	Thr	Glu	Ala	Glu	Met	Phe	
				80					85					90	
Gly	Trp	Ser	Phe	Val	Phe	Glu	Asp	Phe	Val	Ser	Asp	Glu	Leu	Arg	
				95					100					105	
Asn	Lys	Ala	Thr	Gln	Pro	Met	Lys	Ser	Val	Leu	Trp	Trp	Leu	Pro	
				110					115					120	
Val	Glu	Lys	Ala	Phe	Trp	Arg	Gln	Pro	Ala	Gly	Pro	Gly	Ser	Gly	
				125					130					135	
Ile	Arg	Glu	Arg	Leu	Glu	His	Pro	Val	Leu	His	Val	Ser	Trp	Asn	

PF-0509 USN

	140		145		150
Asp Ala Arg Ala	Tyr Cys Ala Trp Arg	Gly Lys Arg Leu Pro	Thr		
	155		160		165
Glu Glu Glu Trp	Glu Phe Ala Ala Arg	Gly Gly Leu Lys Gly	Gln		
	170		175		180
Val Tyr Pro Trp	Gly Asn Trp Phe Gln	Pro Asn Arg Thr Asn	Leu		
	185		190		195
Trp Gln Gly Lys	Phe Pro Lys Gly Asp	Lys Ala Glu Asp Gly	Phe		
	200		205		210
His Gly Val Ser	Pro Val Asn Ala Phe	Pro Ala Gln Asn Asn	Tyr		
	215		220		225
Gly Leu Tyr Asp	Leu Leu Gly Asn Val	Trp Glu Trp Thr Ala	Ser		
	230		235		240
Pro Tyr Gln Ala	Ala Glu Gln Asp Met	Arg Val Leu Arg Gly	Ala		
	245		250		255
Ser Trp Ile Asp	Thr Ala Asp Gly Ser	Ala Asn His Arg Ala	Arg		
	260		265		270
Val Thr Thr Arg	Met Gly Asn Thr Pro	Asp Ser Ala Ser Asp	Asn		
	275		280		285
Leu Gly Phe Arg	Cys Ala Ala Asp Ala	Gly Arg Pro Pro Gly	Glu		
	290		295		300

Leu

<210> 6

<211> 250

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 397663CD1

<400> 6

Met Glu Val Arg	Asn His Gln Gln Gln	Lys Leu Arg Pro Arg	Asp		
1	5	10	15		
Trp Pro Gln Lys	Pro Gln Cys His Gly	Ser Gly Val Ile His	Gly		
	20	25	30		
Asn Ser Pro Leu	Cys Pro Asn Trp Gln	Val Phe Pro Leu Val	Arg		
	35	40	45		
Pro His Arg Gln	Ser Arg Gln Leu Gln	Val Pro Glu Pro Ile	Gln		
	50	55	60		
Ala Gly Gly Pro	Ser Cys Gly His His	Ser Pro Trp Arg Leu	Phe		
	65	70	75		
Leu Pro Gln Arg	Lys Ser Gln Val Ser	Arg Gly Gly Arg Leu	Ala		
	80	85	90		
Cys Leu Leu Ser	Tyr Ala Gly Leu Ser	Gly Asp Asp Pro Asp	Leu		
	95	100	105		
Gly Pro Ala His	Val Val Thr Val Ile	Ala Arg Gln Arg Gly	Asp		
	110	115	120		
Gln Leu Val Pro	Phe Ser Thr Lys Ser	Gly Asp Thr Leu Leu	Leu		
	125	130	135		
Leu His His Gly	Asp Phe Ser Ala Glu	Glu Val Phe His Arg	Glu		
	140	145	150		

PF-0509 USN

Leu	Arg	Ser	Asn	Ser	Met	Lys	Thr	Trp	Gly	Leu	Arg	Ala	Ala	Gly	
				155					160					165	
Trp	Met	Ala	Met	Phe	Met	Gly	Leu	Asn	Leu	Met	Thr	Arg	Ile	Leu	
				170					175					180	
Tyr	Thr	Leu	Val	Asp	Trp	Phe	Pro	Val	Phe	Arg	Asp	Leu	Val	Asn	
				185					190					195	
Ile	Gly	Leu	Lys	Ala	Phe	Ala	Phe	Cys	Val	Ala	Thr	Ser	Leu	Thr	
				200					205					210	
Leu	Leu	Thr	Val	Ala	Ala	Gly	Trp	Leu	Phe	Tyr	Arg	Pro	Leu	Trp	
				215					220					225	
Ala	Leu	Leu	Ile	Ala	Gly	Leu	Ala	Leu	Val	Pro	Ile	Leu	Val	Ala	
				230					235					240	
Arg	Thr	Arg	Val	Pro	Ala	Lys	Lys	Leu	Glu						
				245					250						

<210> 7

<211> 371

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 673766CD1

<400> 7

Met	Glu	Leu	Glu	Leu	Asp	Ala	Gly	Asp	Gln	Asp	Leu	Leu	Ala	Phe	
1				5					10					15	
Leu	Leu	Glu	Glu	Ser	Gly	Asp	Leu	Gly	Thr	Ala	Pro	Asp	Glu	Ala	
				20					25					30	
Val	Arg	Ala	Pro	Leu	Asp	Trp	Ala	Leu	Pro	Leu	Ser	Glu	Val	Pro	
				35					40					45	
Ser	Asp	Trp	Glu	Val	Asp	Asp	Leu	Leu	Cys	Ser	Leu	Leu	Ser	Pro	
				50					55					60	
Pro	Ala	Ser	Leu	Asn	Ile	Leu	Ser	Ser	Ser	Asn	Pro	Cys	Leu	Val	
				65					70					75	
His	His	Asp	His	Thr	Tyr	Ser	Leu	Pro	Arg	Glu	Thr	Val	Ser	Met	
				80					85					90	
Asp	Leu	Glu	Ser	Glu	Ser	Cys	Arg	Lys	Glu	Gly	Thr	Gln	Met	Thr	
				95					100					105	
Pro	Gln	His	Met	Glu	Glu	Leu	Ala	Glu	Gln	Glu	Ile	Ala	Arg	Leu	
				110					115					120	
Val	Leu	Thr	Asp	Glu	Glu	Lys	Ser	Leu	Leu	Glu	Lys	Glu	Gly	Leu	
				125					130					135	
Ile	Leu	Pro	Glu	Thr	Leu	Pro	Leu	Thr	Lys	Thr	Glu	Glu	Gln	Ile	
				140					145					150	
Leu	Lys	Arg	Val	Arg	Arg	Lys	Ile	Arg	Asn	Lys	Arg	Ser	Ala	Gln	
				155					160					165	
Glu	Ser	Arg	Arg	Lys	Lys	Lys	Val	Tyr	Val	Gly	Gly	Leu	Glu	Ser	
				170					175					180	
Arg	Val	Leu	Lys	Tyr	Thr	Ala	Gln	Asn	Met	Glu	Leu	Gln	Asn	Lys	
				185					190					195	
Val	Gln	Leu	Leu	Glu	Glu	Gln	Asn	Leu	Ser	Leu	Leu	Asp	Gln	Leu	
				200					205					210	
Arg	Lys	Leu	Gln	Ala	Met	Val	Ile	Glu	Ile	Ser	Asn	Lys	Thr	Ser	

PF-0509 USN

	215		220		225
Ser Ser Ser Thr Cys Ile Leu Val Leu Leu Val Ser Phe Cys Leu					
	230		235		240
Leu Leu Val Pro Ala Met Tyr Ser Ser Asp Thr Arg Gly Ser Leu					
	245		250		255
Pro Ala Glu His Gly Val Leu Ser Arg Gln Leu Arg Ala Leu Pro					
	260		265		270
Ser Glu Asp Pro Tyr Gln Leu Glu Leu Pro Ala Leu Gln Ser Glu					
	275		280		285
Val Pro Lys Asp Ser Thr His Gln Trp Leu Asp Gly Ser Asp Cys					
	290		295		300
Val Leu Gln Ala Pro Gly Asn Thr Ser Cys Leu Leu His Tyr Met					
	305		310		315
Pro Gln Ala Pro Ser Ala Glu Pro Pro Leu Glu Trp Pro Phe Pro					
	320		325		330
Asp Leu Phe Ser Glu Pro Leu Cys Arg Gly Pro Ile Leu Pro Leu					
	335		340		345
Gln Ala Asn Leu Thr Arg Lys Gly Gly Trp Leu Pro Thr Gly Ser					
	350		355		360
Pro Ser Val Ile Leu Gln Asp Arg Tyr Ser Gly					
	365		370		

<210> 8

<211> 148

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1504753CD1

<400> 8

Met Asn Ser Leu Ala Thr Ser Val Phe Ser Ile Ala Ile Pro Val					
1	5		10		15
Asp Gly Asp Glu Asp Arg Asn Pro Ser Thr Ala Phe Tyr Gln Ala					
	20		25		30
Phe His Leu Asn Thr Leu Lys Glu Ser Lys Ser Leu Trp Asp Ser					
	35		40		45
Ala Ser Gly Gly Gly Val Val Ala Ile Asp Asn Lys Ile Glu Gln					
	50		55		60
Ala Met Asp Leu Val Lys Ser His Leu Met Tyr Ala Val Arg Glu					
	65		70		75
Glu Val Glu Val Leu Lys Glu Gln Ile Lys Glu Leu Val Glu Arg					
	80		85		90
Asn Ser Leu Leu Glu Arg Glu Asn Ala Leu Leu Lys Ser Leu Ser					
	95		100		105
Ser Asn Asp Gln Leu Ser Gln Leu Pro Thr Gln Gln Ala Asn Pro					
	110		115		120
Gly Ser Thr Ser Gln Gln Gln Ala Val Ile Ala Gln Pro Pro Gln					
	125		130		135
Pro Thr Gln Pro Pro Gln Gln Pro Asn Val Ser Ser Ala					
	140		145		

<210> 9

PF-0509 USN

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1760185CD1

<400> 9

Met	Arg	Pro	Leu	Asp	Ile	Val	Glu	Leu	Ala	Glu	Pro	Glu	Glu	Val
1				5					10					15
Glu	Val	Leu	Glu	Pro	Glu	Glu	Asp	Phe	Glu	Gln	Phe	Leu	Leu	Pro
				20					25					30
Val	Ile	Asn	Glu	Met	Arg	Glu	Asp	Ile	Ala	Ser	Leu	Thr	Arg	Glu
				35					40					45
His	Gly	Arg	Ala	Tyr	Leu	Arg	Asn	Arg	Ser	Lys	Leu	Trp	Glu	Met
				50					55					60
Asp	Asn	Met	Leu	Ile	Gln	Ile	Lys	Thr	Gln	Val	Glu	Ala	Ser	Glu
				65					70					75
Glu	Ser	Ala	Leu	Asn	His	Leu	Gln	Asn	Pro	Gly	Asp	Ala	Ala	Glu
				80					85					90
Gly	Arg	Ala	Ala	Lys	Arg	Cys	Glu	Lys	Ala	Glu	Glu	Lys	Ala	Lys
				95					100					105
Glu	Ile	Ala	Lys	Met	Ala	Glu	Met	Leu	Val	Glu	Leu	Val	Arg	Arg
				110					115					120
Ile	Glu	Lys	Ser	Glu	Ser	Ser								
				125										

<210> 10

<211> 383

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1805061CD1

<400> 10

Met	Pro	Tyr	Val	Asp	Arg	Gln	Asn	Arg	Ile	Cys	Gly	Phe	Leu	Asp
1				5					10					15
Ile	Glu	Glu	Asn	Glu	Asn	Ser	Gly	Lys	Phe	Leu	Arg	Arg	Tyr	Phe
				20					25					30
Ile	Leu	Asp	Thr	Arg	Glu	Asp	Ser	Phe	Val	Trp	Tyr	Met	Asp	Asn
				35					40					45
Pro	Gln	Asn	Leu	Pro	Ser	Gly	Ser	Ser	Arg	Val	Gly	Ala	Ile	Lys
				50					55					60
Leu	Thr	Tyr	Ile	Ser	Lys	Val	Ser	Asp	Ala	Thr	Lys	Leu	Arg	Pro
				65					70					75
Lys	Ala	Glu	Phe	Cys	Phe	Val	Met	Asn	Ala	Gly	Met	Arg	Lys	Tyr
				80					85					90
Phe	Leu	Gln	Ala	Asn	Asp	Gln	Gln	Asp	Leu	Val	Glu	Trp	Val	Asn
				95					100					105
Val	Leu	Asn	Lys	Ala	Ile	Lys	Ile	Thr	Val	Pro	Lys	Gln	Ser	Asp
				110					115					120

PF-0509 USN

Ser	Gln	Pro	Asn	Ser	Asp	Asn	Leu	Ser	Arg	His	Gly	Glu	Cys	Gly	
				125					130					135	
Lys	Lys	Gln	Val	Ser	Tyr	Arg	Thr	Asp	Ile	Val	Gly	Gly	Val	Pro	
				140					145					150	
Ile	Ile	Thr	Pro	Thr	Gln	Lys	Glu	Glu	Val	Asn	Glu	Cys	Gly	Glu	
				155					160					165	
Ser	Ile	Asp	Arg	Asn	Asn	Leu	Lys	Arg	Ser	Gln	Ser	His	Leu	Pro	
				170					175					180	
Tyr	Phe	Thr	Pro	Lys	Pro	Pro	Gln	Asp	Ser	Ala	Val	Ile	Lys	Ala	
				185					190					195	
Gly	Tyr	Cys	Val	Lys	Gln	Gly	Ala	Val	Met	Lys	Asn	Trp	Lys	Arg	
				200					205					210	
Arg	Tyr	Phe	Gln	Leu	Asp	Glu	Asn	Thr	Ile	Gly	Tyr	Phe	Lys	Ser	
				215					220					225	
Glu	Leu	Glu	Lys	Glu	Pro	Leu	Arg	Val	Ile	Pro	Leu	Lys	Glu	Val	
				230					235					240	
His	Lys	Val	Gln	Glu	Cys	Lys	Gln	Ser	Asp	Ile	Met	Met	Arg	Asp	
				245					250					255	
Asn	Leu	Phe	Glu	Ile	Val	Thr	Thr	Ser	Arg	Thr	Phe	Tyr	Val	Gln	
				260					265					270	
Ala	Asp	Ser	Pro	Glu	Glu	Met	His	Ser	Trp	Ile	Lys	Ala	Val	Ser	
				275					280					285	
Gly	Ala	Ile	Val	Ala	Gln	Arg	Gly	Pro	Gly	Arg	Ser	Ala	Ser	Ser	
				290					295					300	
Met	Arg	Gln	Ala	Arg	Arg	Leu	Ser	Asn	Pro	Cys	Ile	Gln	Arg	Ser	
				305					310					315	
Ile	Pro	Pro	Val	Leu	Gln	Asn	Pro	Asn	Thr	Leu	Ser	Val	Leu	Pro	
				320					325					330	
Thr	Gln	Pro	Pro	Pro	Pro	His	Ile	Pro	Gln	Pro	Leu	Ala	Ala	Thr	
				335					340					345	
Leu	Trp	Ser	Gln	Pro	Leu	Pro	Trp	Arg	Ser	Glu	Asp	Phe	Thr	Ser	
				350					355					360	
Leu	Leu	Pro	Arg	Ser	Ser	Gln	Gly	Thr	Ser	Arg	Ser	Arg	Leu	Ser	
				365					370					375	
Leu	Gln	Glu	Asn	Gln	Leu	Pro	Lys								
				380											

<210> 11

<211> 254

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1850120CD1

<400> 11

Met	Ser	Leu	Ala	Arg	Gly	His	Gly	Asp	Thr	Ala	Ala	Ser	Thr	Ala	
1				5				10						15	
Ala	Pro	Leu	Ser	Glu	Glu	Gly	Glu	Val	Thr	Ser	Gly	Leu	Gln	Ala	
				20				25						30	
Leu	Ala	Val	Glu	Asp	Thr	Gly	Gly	Pro	Ser	Ala	Ser	Ala	Gly	Lys	
				35				40						45	
Ala	Glu	Asp	Glu	Gly	Glu	Gly	Gly	Arg	Glu	Glu	Thr	Glu	Arg	Glu	

PF-0509 USN

				50					55					60
Gly	Ser	Gly	Gly	Glu	Glu	Ala	Gln	Gly	Glu	Val	Pro	Ser	Ala	Gly
				65					70					75
Gly	Glu	Glu	Pro	Ala	Glu	Glu	Asp	Ser	Glu	Asp	Trp	Cys	Val	Pro
				80					85					90
Cys	Ser	Asp	Glu	Glu	Val	Glu	Leu	Pro	Ala	Asp	Gly	Gln	Pro	Trp
				95					100					105
Met	Pro	Pro	Pro	Ser	Glu	Ile	Gln	Arg	Leu	Tyr	Glu	Leu	Leu	Ala
				110					115					120
Ala	His	Gly	Thr	Leu	Glu	Leu	Gln	Ala	Glu	Ile	Leu	Pro	Arg	Arg
				125					130					135
Pro	Pro	Thr	Pro	Glu	Arg	Gln	Ser	Glu	Glu	Glu	Arg	Ser	Asp	Glu
				140					145					150
Glu	Pro	Glu	Ala	Lys	Glu	Glu	Glu	Glu	Glu	Lys	Pro	His	Met	Pro
				155					160					165
Thr	Glu	Phe	Asp	Phe	Asp	Asp	Glu	Pro	Val	Thr	Pro	Lys	Asp	Ser
				170					175					180
Leu	Ile	Asp	Arg	Arg	Arg	Thr	Pro	Gly	Ser	Ser	Ala	Arg	Ser	Gln
				185					190					195
Lys	Arg	Glu	Ala	Arg	Leu	Asp	Lys	Val	Leu	Ser	Asp	Met	Lys	Arg
				200					205					210
His	Lys	Lys	Leu	Glu	Glu	Gln	Ile	Leu	Arg	Thr	Gly	Arg	Asp	Leu
				215					220					225
Phe	Ser	Leu	Asp	Ser	Glu	Asp	Pro	Ser	Pro	Ala	Ser	Pro	Pro	Leu
				230					235					240
Arg	Ser	Ser	Gly	Ser	Ser	Leu	Phe	Pro	Arg	Gln	Arg	Lys	Tyr	
				245					250					

<210> 12

<211> 305

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1852290CD1

<400> 12

Met	Ala	Leu	Cys	Ala	Leu	Thr	Arg	Ala	Leu	Arg	Ser	Leu	Asn	Leu
1				5					10					15
Ala	Pro	Pro	Thr	Val	Ala	Ala	Pro	Ala	Pro	Ser	Leu	Phe	Pro	Ala
				20					25					30
Ala	Gln	Met	Met	Asn	Asn	Gly	Leu	Leu	Gln	Gln	Pro	Ser	Ala	Leu
				35					40					45
Met	Leu	Leu	Pro	Cys	Arg	Pro	Val	Leu	Thr	Ser	Val	Ala	Leu	Asn
				50					55					60
Ala	Asn	Phe	Val	Ser	Trp	Lys	Ser	Arg	Thr	Lys	Tyr	Thr	Ile	Thr
				65					70					75
Pro	Val	Lys	Met	Arg	Lys	Ser	Gly	Gly	Arg	Asp	His	Thr	Gly	Arg
				80					85					90
Ile	Arg	Val	His	Gly	Ile	Gly	Gly	Gly	His	Lys	Gln	Arg	Tyr	Arg
				95					100					105
Met	Ile	Asp	Phe	Leu	Arg	Phe	Arg	Pro	Glu	Glu	Thr	Lys	Ser	Gly
				110					115					120

PF-0509 USN

Pro	Phe	Glu	Glu	Lys	Val	Ile	Gln	Val	Arg	Tyr	Asp	Pro	Cys	Arg	
				125					130					135	
Ser	Ala	Asp	Ile	Ala	Leu	Val	Ala	Gly	Gly	Ser	Arg	Lys	Arg	Trp	
				140					145					150	
Ile	Ile	Ala	Thr	Glu	Asn	Met	Gln	Ala	Gly	Asp	Thr	Ile	Leu	Asn	
				155					160					165	
Ser	Asn	His	Ile	Gly	Arg	Met	Ala	Val	Ala	Ala	Arg	Glu	Gly	Asp	
				170					175					180	
Ala	His	Pro	Leu	Gly	Ala	Leu	Pro	Val	Gly	Thr	Leu	Ile	Asn	Asn	
				185					190					195	
Val	Glu	Ser	Glu	Pro	Gly	Arg	Gly	Ala	Gln	Tyr	Ile	Arg	Ala	Ala	
				200					205					210	
Gly	Thr	Cys	Gly	Val	Leu	Leu	Arg	Lys	Val	Asn	Gly	Thr	Ala	Ile	
				215					220					225	
Ile	Gln	Leu	Pro	Ser	Lys	Arg	Gln	Met	Gln	Val	Leu	Glu	Thr	Cys	
				230					235					240	
Val	Ala	Thr	Val	Gly	Arg	Val	Ser	Asn	Val	Asp	His	Asn	Lys	Arg	
				245					250					255	
Val	Ile	Gly	Lys	Ala	Gly	Arg	Asn	Arg	Trp	Leu	Gly	Lys	Arg	Pro	
				260					265					270	
Asn	Ser	Gly	Arg	Trp	His	Arg	Lys	Gly	Gly	Trp	Ala	Gly	Arg	Lys	
				275					280					285	
Ile	Arg	Pro	Leu	Pro	Pro	Met	Lys	Ser	Tyr	Val	Lys	Leu	Pro	Ser	
				290					295					300	
Ala	Ser	Ala	Gln	Ser											
				305											

<210> 13

<211> 230

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1944530CD1

<400> 13

Met	Gly	Gln	Gln	Ile	Ser	Asp	Gln	Thr	Gln	Leu	Val	Ile	Asn	Lys	
1				5					10					15	
Leu	Pro	Glu	Lys	Val	Ala	Lys	His	Val	Thr	Leu	Val	Arg	Glu	Ser	
				20					25					30	
Gly	Ser	Leu	Thr	Tyr	Glu	Glu	Phe	Leu	Gly	Arg	Val	Ala	Glu	Leu	
				35					40					45	
Asn	Asp	Val	Thr	Ala	Lys	Val	Ala	Ser	Gly	Gln	Glu	Lys	His	Leu	
				50					55					60	
Leu	Phe	Glu	Val	Gln	Pro	Gly	Ser	Asp	Ser	Ser	Ala	Phe	Trp	Lys	
				65					70					75	
Val	Val	Val	Arg	Val	Val	Cys	Thr	Lys	Ile	Asn	Lys	Ser	Ser	Gly	
				80					85					90	
Ile	Val	Glu	Ala	Ser	Arg	Ile	Met	Asn	Leu	Tyr	Gln	Phe	Ile	Gln	
				95					100					105	
Leu	Tyr	Lys	Asp	Ile	Thr	Ser	Gln	Ala	Ala	Gly	Val	Leu	Ala	Gln	
				110					115					120	
Ser	Ser	Thr	Ser	Glu	Glu	Pro	Asp	Glu	Asn	Ser	Ser	Ser	Val	Thr	

PF-0509 USN

	125		130		135
Ser Cys Gln Ala	Ser Leu Trp Met Gly Arg Val Lys Gln Leu Thr				
	140		145		150
Asp Glu Glu Glu	Cys Cys Ile Cys Met Asp Gly Arg Ala Asp Leu				
	155		160		165
Ile Leu Pro Cys	Ala His Ser Phe Cys Gln Lys Cys Ile Asp Lys				
	170		175		180
Trp Ser Asp Arg	His Arg Asn Cys Pro Ile Cys Arg Leu Gln Met				
	185		190		195
Thr Gly Ala Asn	Glu Ser Trp Val Val Ser Asp Ala Pro Thr Glu				
	200		205		210
Asp Asp Met Ala	Asn Tyr Ile Leu Asn Met Ala Asp Glu Ala Gly				
	215		220		225
Gln Pro His Arg	Pro				
	230				

<210> 14

<211> 292

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2019742CD1

<400> 14

Met Ser Gly Met	Glu Ala Thr Val Thr	Ile Pro Ile Trp	Gln Asn
1	5	10	15
Lys Pro His Gly	Ala Ala Arg Ser Val	Val Arg Arg Ile	Gly Thr
	20	25	30
Asn Leu Pro Leu	Lys Pro Cys Ala Arg	Ala Ser Phe Glu	Thr Leu
	35	40	45
Pro Asn Ile Ser	Asp Leu Cys Leu Arg	Asp Val Pro Pro	Val Pro
	50	55	60
Thr Leu Ala Asp	Ile Ala Trp Ile Ala	Ala Asp Glu Glu	Glu Thr
	65	70	75
Tyr Ala Arg Val	Arg Ser Asp Thr Arg	Pro Leu Arg His	Thr Trp
	80	85	90
Lys Pro Ser Pro	Leu Ile Val Met Gln	Arg Asn Ala Ser	Val Pro
	95	100	105
Asn Leu Arg Gly	Ser Glu Glu Arg Leu	Leu Ala Leu Lys	Lys Pro
	110	115	120
Ala Leu Pro Ala	Leu Ser Arg Thr Thr	Glu Leu Gln Asp	Glu Leu
	125	130	135
Ser His Leu Arg	Ser Gln Ile Ala Lys	Ile Val Ala Ala	Asp Ala
	140	145	150
Ala Ser Ala Ser	Leu Thr Pro Asp Phe	Leu Ser Pro Gly	Ser Ser
	155	160	165
Asn Val Ser Ser	Pro Leu Pro Cys Phe	Gly Ser Ser Phe	His Ser
	170	175	180
Thr Thr Ser Phe	Val Ile Ser Asp Ile	Thr Glu Glu Thr	Glu Val
	185	190	195
Glu Val Pro Glu	Leu Pro Ser Val Pro	Leu Leu Cys Ser	Ala Ser
	200	205	210

PF-0509 USN

Pro	Glu	Cys	Cys	Lys	Pro	Glu	His	Lys	Ala	Ala	Cys	Ser	Ser	Ser		
				215					220						225	
Glu	Glu	Asp	Asp	Cys	Val	Ser	Leu	Ser	Lys	Ala	Ser	Ser	Phe	Ala		
				230					235						240	
Asp	Met	Met	Gly	Ile	Leu	Lys	Asp	Phe	His	Arg	Met	Lys	Gln	Ser		
				245					250						255	
Gln	Asp	Leu	Asn	Arg	Ser	Leu	Leu	Lys	Glu	Glu	Asp	Pro	Ala	Val		
				260					265						270	
Leu	Ile	Ser	Glu	Val	Leu	Arg	Arg	Lys	Phe	Ala	Leu	Lys	Glu	Glu		
				275					280						285	
Asp	Ile	Ser	Arg	Lys	Gly	Asn										
				290												

<210> 15

<211> 232

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2056042CD1

<400> 15

Met	Ala	Ser	Ser	Ala	Ala	Ser	Ser	Glu	His	Phe	Glu	Lys	Leu	His		
1				5					10					15		
Glu	Ile	Phe	Arg	Gly	Leu	His	Glu	Asp	Leu	Gln	Gly	Val	Pro	Glu		
				20					25					30		
Arg	Leu	Leu	Gly	Thr	Ala	Gly	Thr	Glu	Glu	Lys	Lys	Lys	Leu	Ile		
				35					40					45		
Arg	Asp	Phe	Asp	Glu	Lys	Gln	Gln	Glu	Ala	Asn	Glu	Thr	Leu	Ala		
				50					55					60		
Glu	Met	Glu	Glu	Glu	Leu	Arg	Tyr	Ala	Pro	Leu	Ser	Phe	Arg	Asn		
				65					70					75		
Pro	Met	Met	Ser	Lys	Leu	Arg	Asn	Tyr	Arg	Lys	Asp	Leu	Ala	Lys		
				80					85					90		
Leu	His	Arg	Glu	Val	Arg	Ser	Thr	Pro	Leu	Thr	Ala	Thr	Pro	Gly		
				95					100					105		
Gly	Arg	Gly	Asp	Met	Lys	Tyr	Gly	Ile	Tyr	Ala	Val	Glu	Asn	Glu		
				110					115					120		
His	Met	Asn	Arg	Leu	Gln	Ser	Gln	Arg	Ala	Met	Leu	Leu	Gln	Gly		
				125					130					135		
Thr	Glu	Ser	Leu	Asn	Arg	Ala	Thr	Gln	Ser	Ile	Glu	Arg	Ser	His		
				140					145					150		
Arg	Ile	Ala	Thr	Glu	Thr	Asp	Gln	Ile	Gly	Ser	Glu	Ile	Ile	Glu		
				155					160					165		
Glu	Leu	Gly	Glu	Gln	Arg	Asp	Gln	Leu	Glu	Arg	Thr	Lys	Ser	Arg		
				170					175					180		
Leu	Val	Asn	Thr	Ser	Glu	Asn	Leu	Ser	Lys	Ser	Arg	Lys	Ile	Leu		
				185					190					195		
Arg	Ser	Met	Ser	Arg	Lys	Val	Thr	Thr	Asn	Lys	Leu	Leu	Leu	Ser		
				200					205					210		
Ile	Ile	Ile	Leu	Leu	Glu	Leu	Ala	Ile	Leu	Gly	Gly	Leu	Val	Tyr		
				215					220					225		
Tyr	Lys	Phe	Phe	Arg	Ser	His										

<210> 16

<211> 376

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2398682CD1

<400> 16

Met	Arg	Gly	Lys	Thr	Phe	Arg	Phe	Glu	Met	Gln	Arg	Asp	Leu	Val
1				5					10					15
Ser	Phe	Pro	Leu	Ser	Pro	Ala	Val	Arg	Val	Lys	Leu	Val	Ser	Ala
				20					25					30
Gly	Phe	Gln	Thr	Ala	Glu	Glu	Leu	Leu	Glu	Val	Lys	Pro	Ser	Glu
				35					40					45
Leu	Ser	Lys	Glu	Val	Gly	Ile	Ser	Lys	Ala	Glu	Ala	Leu	Glu	Thr
				50					55					60
Leu	Gln	Ile	Ile	Arg	Arg	Glu	Cys	Leu	Thr	Asn	Lys	Pro	Arg	Tyr
				65					70					75
Ala	Gly	Thr	Ser	Glu	Ser	His	Lys	Lys	Cys	Thr	Ala	Leu	Glu	Leu
				80					85					90
Leu	Glu	Gln	Glu	His	Thr	Gln	Gly	Phe	Ile	Ile	Thr	Phe	Cys	Ser
				95					100					105
Ala	Leu	Asp	Asp	Ile	Leu	Gly	Gly	Gly	Val	Pro	Leu	Met	Lys	Thr
				110					115					120
Thr	Glu	Ile	Cys	Gly	Ala	Pro	Gly	Val	Gly	Lys	Thr	Gln	Leu	Cys
				125					130					135
Met	Gln	Leu	Ala	Val	Asp	Val	Gln	Ile	Pro	Glu	Cys	Phe	Gly	Gly
				140					145					150
Val	Ala	Gly	Glu	Ala	Val	Phe	Ile	Asp	Thr	Glu	Gly	Ser	Phe	Met
				155					160					165
Val	Asp	Arg	Val	Val	Asp	Leu	Ala	Thr	Ala	Cys	Ile	Gln	His	Leu
				170					175					180
Gln	Leu	Ile	Ala	Glu	Lys	His	Lys	Gly	Glu	Glu	His	Arg	Lys	Ala
				185					190					195
Leu	Glu	Asp	Phe	Thr	Leu	Asp	Asn	Ile	Leu	Ser	His	Ile	Tyr	Tyr
				200					205					210
Phe	Arg	Cys	Arg	Asp	Tyr	Thr	Glu	Leu	Leu	Ala	Gln	Val	Tyr	Leu
				215					220					225
Leu	Pro	Asp	Phe	Leu	Ser	Glu	His	Ser	Lys	Val	Arg	Leu	Val	Ile
				230					235					240
Val	Asp	Gly	Ile	Ala	Phe	Pro	Phe	Arg	His	Asp	Leu	Asp	Asp	Leu
				245					250					255
Ser	Leu	Arg	Thr	Arg	Leu	Leu	Asn	Gly	Leu	Ala	Gln	Gln	Met	Ile
				260					265					270
Ser	Leu	Ala	Asn	Asn	His	Arg	Leu	Ala	Val	Ile	Leu	Thr	Asn	Gln
				275					280					285
Met	Thr	Thr	Lys	Ile	Asp	Arg	Asn	Gln	Ala	Leu	Leu	Val	Pro	Ala
				290					295					300
Leu	Gly	Glu	Ser	Trp	Gly	His	Ala	Ala	Thr	Ile	Arg	Leu	Ile	Phe
				305					310					315

PF-0509 USN

His	Trp	Asp	Arg	Lys	Gln	Arg	Leu	Ala	Thr	Leu	Tyr	Lys	Ser	Pro
				320					325					330
Ser	Gln	Lys	Glu	Cys	Thr	Val	Leu	Phe	Gln	Ile	Lys	Pro	Gln	Gly
				335					340					345
Phe	Arg	Asp	Thr	Val	Val	Thr	Ser	Ala	Cys	Ser	Leu	Gln	Thr	Glu
				350					355					360
Gly	Ser	Leu	Ser	Thr	Arg	Lys	Arg	Ser	Arg	Asp	Pro	Glu	Glu	Glu
				365					370					375

Leu

<210> 17

<211> 204

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2518753CD1

<400> 17

Met	Ala	Lys	Val	Gln	Val	Asn	Asn	Val	Val	Val	Leu	Asp	Asn	Pro
1				5					10					15
Ser	Pro	Phe	Tyr	Asn	Pro	Phe	Gln	Phe	Glu	Ile	Thr	Phe	Glu	Cys
				20					25					30
Ile	Glu	Asp	Leu	Ser	Glu	Asp	Leu	Glu	Trp	Lys	Ile	Ile	Tyr	Val
				35					40					45
Gly	Ser	Ala	Glu	Ser	Glu	Glu	Tyr	Asp	Gln	Val	Leu	Asp	Ser	Val
				50					55					60
Leu	Val	Gly	Pro	Val	Pro	Ala	Gly	Arg	His	Met	Phe	Val	Phe	Gln
				65					70					75
Ala	Asp	Ala	Pro	Asn	Pro	Gly	Leu	Ile	Pro	Asp	Ala	Asp	Ala	Val
				80					85					90
Gly	Val	Thr	Val	Val	Leu	Ile	Thr	Cys	Thr	Tyr	Arg	Gly	Gln	Glu
				95					100					105
Phe	Ile	Arg	Val	Gly	Tyr	Tyr	Val	Asn	Asn	Glu	Tyr	Thr	Glu	Thr
				110					115					120
Glu	Leu	Arg	Glu	Asn	Pro	Pro	Val	Lys	Pro	Asp	Phe	Ser	Lys	Leu
				125					130					135
Gln	Arg	Asn	Ile	Leu	Ala	Ser	Asn	Pro	Arg	Val	Thr	Arg	Phe	His
				140					145					150
Ile	Asn	Trp	Glu	Asp	Asn	Thr	Glu	Lys	Leu	Glu	Asp	Ala	Glu	Ser
				155					160					165
Ser	Asn	Pro	Asn	Leu	Gln	Ser	Leu	Leu	Ser	Thr	Asp	Ala	Leu	Pro
				170					175					180
Ser	Ala	Ser	Lys	Gly	Trp	Ser	Thr	Ser	Glu	Asn	Ser	Leu	Asn	Val
				185					190					195

Met Leu Glu Ser His Met Asp Cys Met
200

<210> 18

<211> 713

<212> PRT

<213> Homo sapiens

PF-0509 USN

<220>

<221> misc_feature

<223> Incyte ID No: 2709055CD1

<400> 18

Met	Tyr	Leu	Leu	Ile	Gln	Met	Cys	Tyr	His	Leu	Ala	Leu	Pro	Trp	
1				5					10					15	
Tyr	Ser	Lys	Tyr	Phe	Pro	Tyr	Leu	Ala	Leu	Ile	His	Thr	Ile	Ile	
				20					25					30	
Leu	Met	Ala	Ser	Ser	Asn	Phe	Trp	Phe	Lys	Tyr	Pro	Lys	Thr	Cys	
				35					40					45	
Ser	Lys	Val	Glu	His	Ser	Val	Ser	Ile	Leu	Gly	Lys	Cys	Phe	Glu	
				50					55					60	
Ser	Pro	Trp	Thr	Thr	Lys	Ala	Leu	Ser	Glu	Thr	Ala	Cys	Glu	Asp	
				65					70					75	
Ser	Glu	Glu	Asn	Lys	Gln	Arg	Ile	Thr	Gly	Ala	Gln	Thr	Leu	Pro	
				80					85					90	
Lys	His	Val	Ser	Thr	Ser	Ser	Asp	Glu	Gly	Ser	Pro	Ser	Ala	Ser	
				95					100					105	
Thr	Pro	Met	Ile	Asn	Lys	Thr	Gly	Phe	Lys	Phe	Ser	Ala	Glu	Lys	
				110					115					120	
Pro	Val	Ile	Glu	Val	Pro	Ser	Met	Thr	Ile	Leu	Asp	Lys	Lys	Asp	
				125					130					135	
Gly	Glu	Gln	Ala	Lys	Ala	Leu	Phe	Glu	Lys	Val	Arg	Lys	Phe	Arg	
				140					145					150	
Ala	His	Val	Glu	Asp	Ser	Asp	Leu	Ile	Tyr	Lys	Leu	Tyr	Val	Val	
				155					160					165	
Gln	Thr	Val	Ile	Lys	Thr	Ala	Lys	Phe	Ile	Phe	Ile	Leu	Cys	Tyr	
				170					175					180	
Thr	Ala	Asn	Phe	Val	Asn	Ala	Ile	Ser	Phe	Glu	His	Val	Cys	Lys	
				185					190					195	
Pro	Lys	Val	Glu	His	Leu	Ile	Gly	Tyr	Glu	Val	Phe	Glu	Cys	Thr	
				200					205					210	
His	Asn	Met	Ala	Tyr	Met	Leu	Lys	Lys	Leu	Leu	Ile	Ser	Tyr	Ile	
				215					220					225	
Ser	Ile	Ile	Cys	Val	Tyr	Gly	Phe	Ile	Cys	Leu	Tyr	Thr	Leu	Phe	
				230					235					240	
Trp	Leu	Phe	Arg	Ile	Pro	Leu	Lys	Glu	Tyr	Ser	Phe	Glu	Lys	Val	
				245					250					255	
Arg	Glu	Glu	Ser	Ser	Phe	Ser	Asp	Ile	Pro	Asp	Val	Lys	Asn	Asp	
				260					265					270	
Phe	Ala	Phe	Leu	Leu	His	Met	Val	Asp	Gln	Tyr	Asp	Gln	Leu	Tyr	
				275					280					285	
Ser	Lys	Arg	Phe	Gly	Val	Phe	Leu	Ser	Glu	Val	Ser	Glu	Asn	Lys	
				290					295					300	
Leu	Arg	Glu	Ile	Ser	Leu	Asn	His	Glu	Trp	Thr	Phe	Glu	Lys	Leu	
				305					310					315	
Arg	Gln	His	Ile	Ser	Arg	Asn	Ala	Gln	Asp	Lys	Gln	Glu	Leu	His	
				320					325					330	
Leu	Phe	Met	Leu	Ser	Gly	Val	Pro	Asp	Ala	Val	Phe	Asp	Leu	Thr	
				335					340					345	
Asp	Leu	Asp	Val	Leu	Lys	Leu	Glu	Leu	Ile	Pro	Glu	Ala	Lys	Ile	
				350					355					360	
Pro	Ala	Lys	Ile	Ser	Gln	Met	Thr	Asn	Leu	Gln	Glu	Leu	His	Leu	

PF-0509 USN

	365		370		375
Cys His Cys Pro	Ala Lys Val Glu Gln	Thr Ala Phe Ser Phe	Leu		
	380		385		390
Arg Asp His Leu	Arg Cys Leu His Val	Lys Phe Thr Asp Val	Ala		
	395		400		405
Glu Ile Pro Ala	Trp Val Tyr Leu Leu	Lys Asn Leu Arg Glu	Leu		
	410		415		420
Tyr Leu Ile Gly	Asn Leu Asn Ser Glu	Asn Asn Lys Met Ile	Gly		
	425		430		435
Leu Glu Ser Leu	Arg Glu Leu Arg His	Leu Lys Ile Leu His	Val		
	440		445		450
Lys Ser Asn Leu	Thr Lys Val Pro Ser	Asn Ile Thr Asp Val	Ala		
	455		460		465
Pro His Leu Thr	Lys Leu Val Ile His	Asn Asp Gly Thr Lys	Leu		
	470		475		480
Leu Val Leu Asn	Ser Leu Lys Lys Met	Met Asn Val Ala Glu	Leu		
	485		490		495
Glu Leu Gln Asn	Cys Glu Leu Glu Arg	Ile Pro His Ala Ile	Phe		
	500		505		510
Ser Leu Ser Asn	Leu Gln Glu Leu Asp	Leu Lys Ser Asn Asn	Ile		
	515		520		525
Arg Thr Ile Glu	Glu Ile Ile Ser Phe	Gln His Leu Lys Arg	Leu		
	530		535		540
Thr Cys Leu Lys	Leu Trp His Asn Lys	Ile Val Thr Ile Pro	Pro		
	545		550		555
Ser Ile Thr His	Val Lys Asn Leu Glu	Ser Leu Tyr Phe Ser	Asn		
	560		565		570
Asn Lys Leu Glu	Ser Leu Pro Val Ala	Val Phe Ser Leu Gln	Lys		
	575		580		585
Leu Arg Cys Leu	Asp Val Ser Tyr Asn	Asn Ile Ser Met Ile	Pro		
	590		595		600
Ile Glu Ile Gly	Leu Leu Gln Asn Leu	Gln His Leu His Ile	Thr		
	605		610		615
Gly Asn Lys Val	Asp Ile Leu Pro Lys	Gln Leu Phe Lys Cys	Ile		
	620		625		630
Lys Leu Arg Thr	Leu Asn Leu Gly Gln	Asn Cys Ile Thr Ser	Leu		
	635		640		645
Pro Glu Lys Val	Gly Gln Leu Ser Gln	Leu Thr Gln Leu Glu	Leu		
	650		655		660
Lys Gly Asn Cys	Leu Asp Arg Leu Pro	Ala Gln Leu Gly Gln	Cys		
	665		670		675
Arg Met Leu Lys	Lys Ser Gly Leu Val	Val Glu Asp His Leu	Phe		
	680		685		690
Asp Thr Leu Pro	Leu Glu Val Lys Glu	Ala Leu Asn Gln Asp	Ile		
	695		700		705
Asn Ile Pro Phe	Ala Asn Gly Ile				
	710				

<210> 19

<211> 360

<212> PRT

<213> Homo sapiens

<220>


```
<221> misc_feature
<223> Incyte ID No: 2724537CD1
```

Met	Ala	Ser	Leu	Leu	Ala	Lys	Asp	Ala	Tyr	Leu	Gln	Ser	Leu	Ala
1				5					10					15
Lys	Lys	Ile	Cys	Ser	His	Ser	Ala	Pro	Glu	Gln	Gln	Ala	Arg	Thr
				20					25					30
Arg	Ala	Gly	Lys	Thr	Gln	Gly	Ser	Glu	Thr	Ala	Gly	Pro	Pro	Lys
				35					40					45
Lys	Lys	Arg	Lys	Lys	Thr	Gln	Lys	Lys	Phe	Arg	Lys	Arg	Glu	Glu
				50					55					60
Lys	Ala	Ala	Glu	His	Lys	Ala	Lys	Ser	Leu	Gly	Glu	Lys	Ser	Pro
				65					70					75
Ala	Ala	Ser	Gly	Ala	Arg	Arg	Pro	Glu	Ala	Ala	Lys	Glu	Glu	Ala
				80					85					90
Ala	Trp	Ala	Ser	Ser	Ser	Ala	Gly	Asn	Pro	Ala	Asp	Gly	Leu	Ala
				95					100					105
Thr	Glu	Pro	Glu	Ser	Val	Phe	Ala	Leu	Asp	Val	Leu	Arg	Gln	Arg
				110					115					120
Leu	His	Glu	Lys	Ile	Gln	Glu	Ala	Arg	Gly	Gln	Gly	Ser	Ala	Lys
				125					130					135
Glu	Leu	Ser	Pro	Ala	Ala	Leu	Glu	Lys	Arg	Arg	Arg	Arg	Lys	Gln
				140					145					150
Glu	Arg	Asp	Arg	Lys	Lys	Arg	Lys	Arg	Lys	Glu	Leu	Arg	Ala	Lys
				155					160					165
Glu	Lys	Ala	Arg	Lys	Ala	Glu	Glu	Ala	Thr	Glu	Ala	Gln	Glu	Val
				170					175					180
Val	Glu	Ala	Thr	Pro	Glu	Gly	Ala	Cys	Thr	Glu	Pro	Arg	Glu	Pro
				185					190					195
Pro	Gly	Leu	Ile	Phe	Asn	Lys	Val	Glu	Val	Ser	Glu	Asp	Glu	Pro
				200					205					210
Ala	Ser	Lys	Ala	Gln	Arg	Arg	Lys	Glu	Lys	Arg	Gln	Arg	Val	Lys
				215					220					225
Gly	Asn	Leu	Thr	Pro	Leu	Thr	Gly	Arg	Asn	Tyr	Arg	Gln	Leu	Leu
				230					235					240
Glu	Arg	Leu	Gln	Ala	Arg	Gln	Ser	Arg	Leu	Asp	Glu	Leu	Arg	Gly
				245					250					255
Gln	Asp	Glu	Gly	Lys	Ala	Gln	Glu	Leu	Glu	Ala	Lys	Met	Lys	Trp
				260					265					270
Thr	Asn	Leu	Leu	Tyr	Lys	Ala	Glu	Gly	Val	Lys	Ile	Arg	Asp	Asp
				275					280					285
Glu	Arg	Leu	Leu	Gln	Glu	Ala	Leu	Lys	Arg	Lys	Glu	Lys	Arg	Arg
				290					295					300
Ala	Gln	Arg	Gln	Arg	Arg	Trp	Glu	Lys	Arg	Thr	Ala	Gly	Val	Val
				305					310					315
Glu	Lys	Met	Gln	Gln	Arg	Gln	Asp	Arg	Arg	Arg	Gln	Asn	Leu	Arg
				320					325					330
Arg	Lys	Lys	Ala	Ala	Arg	Ala	Glu	Arg	Arg	Leu	Leu	Arg	Ala	Arg
				335					340					345
Lys	Lys	Gly	Arg	Ile	Leu	Pro	Gln	Asp	Leu	Glu	Arg	Ala	Gly	Leu
	</													

PF-0509 USN

<210> 20

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 025818CD1

<400> 20

Met	Pro	Ala	Asp	Ile	Met	Glu	Lys	Asn	Ser	Ser	Ser	Pro	Val	Ala
1				5					10					15
Ala	Thr	Pro	Ala	Ser	Val	Asn	Thr	Thr	Pro	Asp	Lys	Pro	Lys	Thr
				20					25					30
Ala	Ser	Glu	His	Arg	Lys	Ser	Ser	Lys	Pro	Ile	Met	Glu	Lys	Arg
				35					40					45
Arg	Arg	Ala	Arg	Ile	Asn	Glu	Ser	Leu	Ser	Gln	Leu	Lys	Thr	Leu
				50					55					60
Ile	Leu	Asp	Ala	Leu	Lys	Lys	Asp	Ser	Ser	Arg	His	Ser	Lys	Leu
				65					70					75
Glu	Lys	Ala	Asp	Ile	Leu	Glu	Met	Thr	Val	Lys	His	Leu	Arg	Asn
				80					85					90
Leu	Gln	Arg	Ala	Gln	Met	Thr	Ala	Ala	Leu	Ser	Thr	Asp	Pro	Ser
				95					100					105
Val	Leu	Gly	Lys	Tyr	Arg	Ala	Gly	Phe	Ser	Glu	Cys	Met	Asn	Glu
				110					115					120
Val	Thr	Arg	Phe	Leu	Ser	Ser	Pro	Ser	Thr	Pro	Ala	Thr	Ala	Ala
				125					130					135
Pro	Pro	Trp	Ala	Pro	Thr	Gln	Cys	His	Leu	Pro	Ala	Ala	Pro	Arg
				140					145					150
Leu	Arg	Arg	Thr	Pro	Cys	Gly	Gly	Arg	Gly	Gly	Thr	Glu	Gly	Ala
				155					160					165
Gln	Ala	Thr	Pro	Pro	Pro	Lys	Leu	Pro	Asn	Pro	Pro	Leu	Phe	Pro
				170					175					180
Pro	Asp	Ser	Lys	Gln	Glu	Leu	Glu	Tyr	Trp	Glu	Arg	Arg	Gly	Leu
				185					190					195

Phe

<210> 21

<211> 540

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 438283CD1

<400> 21

Met	Leu	Arg	Glu	Glu	Ala	Thr	Lys	Lys	Ser	Lys	Glu	Lys	Glu	Pro
1				5					10					15
Gly	Met	Ala	Leu	Pro	Gln	Gly	Arg	Leu	Ala	Phe	Arg	Asp	Val	Ala
				20					25					30
Ile	Glu	Phe	Ser	Leu	Glu	Glu	Trp	Lys	Cys	Leu	Asn	Pro	Ala	Gln

				35					40					45
Arg	Ala	Leu	Tyr	Arg	Ala	Val	Met	Leu	Glu	Asn	Tyr	Arg	Asn	Leu
				50					55					60
Glu	Phe	Val	Asp	Ser	Ser	Leu	Lys	Ser	Met	Met	Glu	Phe	Ser	Ser
				65					70					75
Thr	Arg	His	Ser	Asn	Thr	Gly	Glu	Val	Ile	His	Thr	Gly	Thr	Leu
				80					85					90
Gln	Arg	His	Lys	Ser	His	His	Ile	Gly	Asp	Phe	Cys	Phe	Pro	Glu
				95					100					105
Met	Lys	Lys	Asp	Ile	His	His	Phe	Glu	Phe	Gln	Trp	Gln	Glu	Val
				110					115					120
Glu	Arg	Asn	Gly	His	Glu	Ala	Pro	Met	Thr	Lys	Ile	Lys	Lys	Leu
				125					130					135
Thr	Gly	Ser	Thr	Asp	Arg	Ser	Asp	His	Arg	His	Ala	Gly	Asn	Lys
				140					145					150
Pro	Ile	Lys	Asp	Gln	Leu	Gly	Leu	Ser	Phe	His	Ser	His	Leu	Pro
				155					160					165
Glu	Leu	His	Met	Phe	Gln	Thr	Lys	Gly	Lys	Ile	Ser	Asn	Gln	Leu
				170					175					180
Asp	Lys	Ser	Ile	Ser	Gly	Ala	Ser	Ser	Ala	Ser	Glu	Ser	Gln	Arg
				185					190					195
Ile	Ser	Cys	Arg	Leu	Lys	Thr	His	Ile	Ser	Asn	Lys	Tyr	Gly	Lys
				200					205					210
Asn	Phe	Leu	His	Ser	Ser	Phe	Thr	Gln	Ile	Gln	Glu	Ile	Cys	Met
				215					220					225
Arg	Glu	Lys	Pro	Cys	Gln	Ser	Asn	Glu	Cys	Gly	Lys	Ala	Phe	Asn
				230					235					240
Tyr	Ser	Ser	Leu	Leu	Arg	Arg	His	His	Ile	Thr	His	Ser	Arg	Glu
				245					250					255
Arg	Glu	Tyr	Lys	Cys	Asp	Val	Cys	Gly	Lys	Ile	Phe	Asn	Gln	Lys
				260					265					270
Gln	Tyr	Ile	Val	Tyr	His	His	Arg	Cys	His	Thr	Gly	Glu	Lys	Thr
				275					280					285
Tyr	Lys	Cys	Asn	Glu	Cys	Gly	Lys	Thr	Phe	Thr	Gln	Met	Ser	Ser
				290					295					300
Leu	Val	Cys	His	Arg	Arg	Leu	His	Thr	Gly	Glu	Lys	Pro	Tyr	Lys
				305					310					315
Cys	Asn	Glu	Cys	Gly	Lys	Thr	Phe	Ser	Glu	Lys	Ser	Ser	Leu	Arg
				320					325					330
Cys	His	Arg	Arg	Leu	His	Thr	Gly	Glu	Lys	Pro	Tyr	Lys	Cys	Asn
				335					340					345
Glu	Cys	Gly	Lys	Thr	Phe	Gly	Arg	Asn	Ser	Ala	Leu	Val	Ile	His
				350					355					360
Lys	Ala	Ile	His	Thr	Gly	Glu	Lys	Pro	Tyr	Lys	Cys	Asn	Glu	Cys
				365					370					375
Gly	Lys	Thr	Phe	Ser	Gln	Lys	Ser	Ser	Leu	Gln	Cys	His	His	Ile
				380					385					390
Leu	His	Thr	Gly	Glu	Lys	Pro	Tyr	Lys	Cys	Glu	Glu	Cys	Asp	Asn
				395					400					405
Val	Tyr	Ile	Arg	Arg	Ser	His	Leu	Glu	Arg	His	Arg	Lys	Ile	His
				410					415					420
Thr	Gly	Glu	Gly	Ser	Tyr	Lys	Cys	Lys	Val	Cys	Asp	Lys	Ala	Phe
				425					430					435
Arg	Ser	Asp	Ser	Cys	Leu	Ala	Asn	His	Thr	Arg	Val	His	Thr	Gly

PF-0509 USN

	440		445		450
Glu Lys Pro Tyr	Lys Cys Asn Lys Cys	Ala Lys Val Phe Asn Gln			
	455		460		465
Lys Gly Ile Leu	Ala Gln His Gln Arg	Val His Thr Gly Glu Lys			
	470		475		480
Pro Tyr Lys Cys	Asn Glu Cys Gly Lys	Val Phe Asn Gln Lys Ala			
	485		490		495
Ser Leu Ala Lys	His Gln Arg Val His	Thr Ala Glu Lys Pro Tyr			
	500		505		510
Lys Cys Asn Glu	Cys Gly Lys Ala Phe	Thr Gly Gln Ser Thr Leu			
	515		520		525
Ile His His Gln	Ala Ile His Gly Cys	Arg Glu Thr Leu Gln Met			
	530		535		540

<210> 22

<211> 549

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 619699CD1

<400> 22

Met Leu Glu Asn Tyr	Lys Asn Leu Ala Thr	Val Gly Tyr Gln Leu
1	5	10 15
Phe Lys Pro Ser Leu	Ile Ser Trp Leu Glu	Gln Glu Glu Ser Arg
	20	25 30
Thr Val Gln Arg Gly	Asp Phe Gln Ala Ser	Glu Trp Lys Val Gln
	35	40 45
Leu Lys Thr Lys Glu	Leu Ala Leu Gln Gln	Asp Val Leu Gly Glu
	50	55 60
Pro Thr Ser Ser Gly	Ile Gln Met Ile Gly	Ser His Asn Gly Gly
	65	70 75
Glu Val Ser Asp Val	Lys Gln Cys Gly Asp	Val Ser Ser Glu His
	80	85 90
Ser Cys Leu Lys Thr	His Val Arg Thr Gln	Asn Ser Glu Asn Thr
	95	100 105
Phe Glu Cys Tyr Leu	Tyr Gly Val Asp Phe	Leu Thr Leu His Lys
	110	115 120
Lys Thr Ser Thr Gly	Glu Gln Arg Ser Val	Phe Ser Gln Cys Gly
	125	130 135
Lys Ala Phe Ser Leu	Asn Pro Asp Val Val	Cys Gln Arg Thr Cys
	140	145 150
Thr Gly Glu Lys Ala	Phe Asp Cys Ser Asp	Ser Gly Lys Ser Phe
	155	160 165
Ile Asn His Ser His	Leu Gln Gly His Leu	Arg Thr His Asn Gly
	170	175 180
Glu Ser Leu His Glu	Trp Lys Glu Cys Gly	Arg Gly Phe Ile His
	185	190 195
Ser Thr Asp Leu Ala	Val Arg Ile Gln Thr	His Arg Ser Glu Lys
	200	205 210
Pro Tyr Lys Cys Lys	Glu Cys Gly Lys Gly	Phe Arg Tyr Ser Ala

PF-0509 USN

	215		220		225
Tyr Leu Asn Ile His Met Gly Thr His		Thr Gly Asp Asn Pro Tyr			
	230		235		240
Glu Cys Lys Glu Cys Gly Lys Ala Phe		Thr Arg Ser Cys Gln Leu			
	245		250		255
Thr Gln His Arg Lys Thr His Thr Gly		Glu Lys Pro Tyr Lys Cys			
	260		265		270
Lys Asp Cys Gly Arg Ala Phe Thr Val		Ser Ser Cys Leu Ser Gln			
	275		280		285
His Met Lys Ile His Val Gly Glu Lys		Pro Tyr Glu Cys Lys Glu			
	290		295		300
Cys Gly Ile Ala Phe Thr Arg Ser Ser		Gln Leu Thr Glu His Leu			
	305		310		315
Lys Thr His Thr Ala Lys Asp Pro Phe		Glu Cys Lys Val Cys Gly			
	320		325		330
Lys Ser Phe Arg Asn Ser Ser Cys Leu		Ser Asp His Phe Arg Ile			
	335		340		345
His Thr Gly Ile Lys Pro Tyr Lys Cys		Lys Asp Cys Gly Lys Ala			
	350		355		360
Phe Thr Gln Asn Ser Asp Leu Thr Lys		His Ala Arg Thr His Ser			
	365		370		375
Gly Glu Arg Pro Tyr Glu Cys Lys Glu		Cys Gly Lys Ala Phe Ala			
	380		385		390
Arg Ser Ser Arg Leu Ser Glu His Thr		Arg Thr His Thr Gly Glu			
	395		400		405
Lys Pro Phe Glu Cys Val Lys Cys Gly		Lys Ala Phe Ala Ile Ser			
	410		415		420
Ser Asn Leu Ser Gly His Leu Arg Ile		His Thr Gly Glu Lys Pro			
	425		430		435
Phe Glu Cys Leu Glu Cys Gly Lys Ala		Phe Thr His Ser Ser Ser			
	440		445		450
Leu Asn Asn His Met Arg Thr His Ser		Ala Lys Lys Pro Phe Thr			
	455		460		465
Cys Met Glu Cys Gly Lys Ala Phe Lys		Phe Pro Thr Cys Val Asn			
	470		475		480
Leu His Met Arg Ile His Thr Gly Glu		Lys Pro Tyr Lys Cys Lys			
	485		490		495
Gln Cys Gly Lys Ser Phe Ser Tyr Ser		Asn Ser Phe Gln Leu His			
	500		505		510
Glu Arg Thr His Thr Gly Glu Lys Pro		Tyr Glu Cys Lys Glu Cys			
	515		520		525
Gly Lys Ala Phe Ser Ser Ser Ser Ser		Phe Arg Asn His Glu Arg			
	530		535		540
Arg His Ala Asp Glu Arg Leu Ser Ala					
	545				

<210> 23

<211> 361

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 693452CD1

PF-0509 USN

<220>

<221> unsure

<222> 335

<223> unknown or other

<400> 23

Met	Ala	Asp	Phe	Lys	Val	Leu	Ser	Ser	Gln	Asp	Ile	Lys	Trp	Ala
1				5					10					15
Leu	His	Glu	Leu	Lys	Gly	His	Tyr	Ala	Ile	Thr	Arg	Lys	Ala	Leu
				20					25					30
Ser	Asp	Ala	Ile	Lys	Lys	Trp	Gln	Glu	Leu	Ser	Pro	Glu	Thr	Ser
				35					40					45
Gly	Lys	Arg	Lys	Lys	Arg	Lys	Gln	Met	Asn	Gln	Tyr	Ser	Tyr	Ile
				50					55					60
Asp	Phe	Lys	Phe	Glu	Gln	Gly	Asp	Ile	Lys	Ile	Glu	Lys	Arg	Met
				65					70					75
Phe	Phe	Leu	Glu	Asn	Lys	Arg	Arg	His	Cys	Arg	Ser	Tyr	Asp	Arg
				80					85					90
Arg	Ala	Leu	Leu	Pro	Ala	Val	Gln	Gln	Glu	Gln	Glu	Phe	Tyr	Glu
				95					100					105
Gln	Lys	Ile	Lys	Glu	Met	Ala	Glu	His	Glu	Asp	Phe	Leu	Leu	Ala
				110					115					120
Leu	Gln	Met	Asn	Glu	Glu	Gln	Tyr	Gln	Lys	Asp	Gly	Gln	Leu	Ile
				125					130					135
Glu	Cys	Arg	Cys	Cys	Tyr	Gly	Glu	Phe	Pro	Phe	Glu	Glu	Leu	Thr
				140					145					150
Gln	Cys	Ala	Asp	Ala	His	Leu	Phe	Cys	Lys	Glu	Cys	Leu	Ile	Arg
				155					160					165
Tyr	Ala	Gln	Glu	Ala	Val	Phe	Gly	Ser	Gly	Lys	Leu	Glu	Leu	Ser
				170					175					180
Cys	Met	Glu	Gly	Ser	Cys	Thr	Cys	Ser	Phe	Pro	Thr	Ser	Glu	Leu
				185					190					195
Glu	Lys	Val	Leu	Pro	Gln	Thr	Ile	Leu	Tyr	Lys	Tyr	Tyr	Glu	Arg
				200					205					210
Lys	Ala	Glu	Glu	Glu	Val	Ala	Ala	Ala	Tyr	Ala	Asp	Glu	Leu	Val
				215					220					225
Arg	Cys	Pro	Ser	Cys	Ser	Phe	Pro	Ala	Leu	Leu	Asp	Ser	Asp	Val
				230					235					240
Lys	Arg	Phe	Ser	Cys	Pro	Asn	Pro	His	Cys	Arg	Lys	Glu	Thr	Cys
				245					250					255
Arg	Lys	Cys	Gln	Gly	Leu	Trp	Lys	Glu	His	Asn	Gly	Leu	Thr	Cys
				260					265					270
Glu	Glu	Leu	Ala	Glu	Lys	Asp	Asp	Ile	Lys	Tyr	Arg	Thr	Ser	Ile
				275					280					285
Glu	Glu	Lys	Met	Thr	Ala	Ala	Arg	Ile	Arg	Lys	Cys	His	Lys	Cys
				290					295					300
Gly	Thr	Gly	Leu	Ile	Lys	Ser	Glu	Gly	Cys	Asn	Arg	Met	Ser	Cys
				305					310					315
Arg	Cys	Gly	Ala	Gln	Met	Cys	Tyr	Leu	Cys	Arg	Val	Ser	Ile	Asn
				320					325					330
Gly	Tyr	Asp	His	Xaa	Cys	Gln	Gln	Ser	Arg	Leu	Thr	Gly	Ala	Pro
				335					340					345
Phe	Gln	Gly	Val	Phe	Lys	Met	Leu	Ser	Met	Asp	Arg	Leu	Gln	Cys
				350					355					360

PF-0509 USN

Lys

<210> 24

<211> 241

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 839651CD1

<400> 24

Met	Trp	Pro	Ser	Leu	Glu	Ala	Leu	Cys	Ser	Leu	Phe	Ala	Ala	Arg
1				5					10					15
Ser	Thr	Gly	Ser	Gln	Ala	Gln	Ser	Ala	Pro	Thr	Pro	Ala	Trp	Asp
				20					25					30
Glu	Asp	Thr	Ala	Gln	Ile	Gly	Pro	Lys	Arg	Ile	Arg	Lys	Ala	Ala
				35					40					45
Lys	Arg	Glu	Leu	Met	Pro	Cys	Asp	Phe	Pro	Gly	Cys	Gly	Arg	Ile
				50					55					60
Phe	Ser	Asn	Arg	Gln	Tyr	Leu	Asn	His	His	Lys	Lys	Tyr	Gln	His
				65					70					75
Ile	His	Gln	Lys	Ser	Phe	Ser	Cys	Pro	Glu	Pro	Ala	Cys	Gly	Lys
				80					85					90
Ser	Phe	Asn	Phe	Lys	Lys	His	Leu	Lys	Glu	His	Met	Lys	Leu	His
				95					100					105
Ser	Asp	Thr	Arg	Asp	Tyr	Ile	Cys	Glu	Phe	Cys	Ala	Arg	Ser	Phe
				110					115					120
Arg	Thr	Ser	Ser	Asn	Leu	Val	Ile	His	Arg	Arg	Ile	His	Thr	Gly
				125					130					135
Glu	Lys	Pro	Leu	Gln	Cys	Glu	Ile	Cys	Gly	Phe	Thr	Cys	Arg	Gln
				140					145					150
Lys	Ala	Ser	Leu	Asn	Trp	His	Gln	Arg	Lys	His	Ala	Glu	Thr	Val
				155					160					165
Ala	Ala	Leu	Arg	Phe	Pro	Cys	Glu	Phe	Cys	Gly	Lys	Arg	Phe	Glu
				170					175					180
Lys	Pro	Asp	Ser	Val	Ala	Ala	His	Arg	Ser	Lys	Ser	His	Pro	Ala
				185					190					195
Leu	Leu	Leu	Ala	Pro	Gln	Glu	Ser	Pro	Ser	Gly	Pro	Leu	Glu	Pro
				200					205					210
Cys	Pro	Ser	Ile	Ser	Ala	Pro	Gly	Pro	Leu	Gly	Ser	Ser	Glu	Gly
				215					220					225
Ser	Arg	Pro	Ser	Ala	Ser	Pro	Gln	Ala	Pro	Thr	Leu	Leu	Pro	Gln
				230					235					240

Gln

<210> 25

<211> 576

<212> PRT

<213> Homo sapiens

<220>

PF-0509 USN

<221> misc_feature

<223> Incyte ID No: 1253545CD1

<400> 25

Met	Ala	Lys	Ala	Gln	Glu	Thr	Gly	His	Leu	Val	Met	Asp	Val	Arg
1				5					10					15
Arg	Tyr	Gly	Lys	Ala	Gly	Ser	Pro	Glu	Thr	Lys	Trp	Ile	Asp	Ala
				20					25					30
Thr	Ser	Gly	Ile	Tyr	Asn	Ser	Glu	Lys	Ser	Ser	Asn	Leu	Ser	Val
				35					40					45
Thr	Thr	Asp	Phe	Ser	Glu	Ser	Leu	Gln	Ser	Ser	Asn	Ile	Glu	Ser
				50					55					60
Lys	Glu	Ile	Asn	Gly	Ile	His	Asp	Glu	Ser	Asn	Ala	Phe	Glu	Ser
				65					70					75
Lys	Ala	Ser	Glu	Ser	Ile	Ser	Leu	Lys	Asn	Leu	Lys	Arg	Arg	Ser
				80					85					90
Gln	Phe	Phe	Glu	Gln	Gly	Ser	Ser	Asp	Ser	Val	Val	Pro	Asp	Leu
				95					100					105
Pro	Val	Pro	Thr	Ile	Ser	Ala	Pro	Ser	Arg	Trp	Val	Trp	Asp	Gln
				110					115					120
Glu	Glu	Glu	Arg	Lys	Arg	Gln	Glu	Arg	Trp	Gln	Lys	Glu	Gln	Asp
				125					130					135
Arg	Leu	Leu	Gln	Glu	Lys	Tyr	Gln	Arg	Glu	Gln	Glu	Lys	Leu	Arg
				140					145					150
Glu	Glu	Trp	Gln	Arg	Ala	Lys	Gln	Glu	Ala	Glu	Arg	Glu	Asn	Ser
				155					160					165
Lys	Tyr	Leu	Asp	Glu	Glu	Leu	Met	Val	Leu	Ser	Ser	Asn	Ser	Met
				170					175					180
Ser	Leu	Thr	Thr	Arg	Glu	Pro	Ser	Leu	Ala	Thr	Trp	Glu	Ala	Thr
				185					190					195
Trp	Ser	Glu	Gly	Ser	Lys	Ser	Ser	Asp	Arg	Glu	Gly	Thr	Arg	Ala
				200					205					210
Gly	Glu	Glu	Glu	Arg	Arg	Gln	Pro	Gln	Glu	Glu	Val	Val	His	Glu
				215					220					225
Asp	Gln	Gly	Lys	Lys	Pro	Gln	Asp	Gln	Leu	Val	Ile	Glu	Arg	Glu
				230					235					240
Arg	Lys	Trp	Glu	Gln	Gln	Leu	Gln	Glu	Glu	Gln	Glu	Gln	Lys	Arg
				245					250					255
Leu	Gln	Ala	Glu	Ala	Glu	Glu	Gln	Lys	Arg	Pro	Ala	Glu	Glu	Gln
				260					265					270
Lys	Arg	Gln	Ala	Glu	Ile	Glu	Arg	Glu	Thr	Ser	Val	Arg	Ile	Tyr
				275					280					285
Gln	Tyr	Arg	Arg	Pro	Val	Asp	Ser	Tyr	Asp	Ile	Pro	Lys	Thr	Glu
				290					295					300
Glu	Ala	Ser	Ser	Gly	Phe	Leu	Pro	Gly	Asp	Arg	Asn	Lys	Ser	Arg
				305					310					315
Ser	Thr	Thr	Glu	Leu	Asp	Asp	Tyr	Ser	Thr	Asn	Lys	Asn	Gly	Asn
				320					325					330
Asn	Lys	Tyr	Leu	Asp	Gln	Ile	Gly	Asn	Thr	Thr	Ser	Ser	Gln	Arg
				335					340					345
Arg	Ser	Lys	Lys	Glu	Gln	Val	Pro	Ser	Gly	Ala	Glu	Leu	Glu	Arg
				350					355					360
Gln	Gln	Ile	Leu	Gln	Glu	Met	Arg	Lys	Arg	Thr	Pro	Leu	His	Asn
				365					370					375

PF-0509 USN

Asp	Asn	Ser	Trp	Ile	Arg	Gln	Arg	Ser	Ala	Ser	Val	Asn	Lys	Glu	380	385	390
Pro	Val	Ser	Leu	Pro	Gly	Ile	Met	Arg	Arg	Gly	Glu	Ser	Leu	Asp	395	400	405
Asn	Leu	Asp	Ser	Pro	Arg	Ser	Asn	Ser	Trp	Arg	Gln	Pro	Pro	Trp	410	415	420
Leu	Asn	Gln	Pro	Thr	Gly	Phe	Tyr	Ala	Ser	Ser	Ser	Val	Gln	Asp	425	430	435
Phe	Ser	Arg	Pro	Gln	Pro	Gln	Leu	Val	Ser	Thr	Ser	Asn	Arg	Ala	440	445	450
Tyr	Met	Arg	Asn	Pro	Ser	Ser	Ser	Val	Pro	Pro	Pro	Ser	Ala	Gly	455	460	465
Ser	Val	Lys	Thr	Ser	Thr	Thr	Gly	Val	Ala	Thr	Thr	Gln	Ser	Pro	470	475	480
Thr	Pro	Arg	Ser	His	Ser	Pro	Ser	Ala	Ser	Gln	Ser	Gly	Ser	Gln	485	490	495
Leu	Arg	Asn	Arg	Ser	Val	Ser	Gly	Lys	Arg	Ile	Cys	Ser	Tyr	Cys	500	505	510
Asn	Asn	Ile	Leu	Gly	Lys	Gly	Ala	Ala	Met	Ile	Ile	Glu	Ser	Leu	515	520	525
Gly	Leu	Cys	Tyr	His	Leu	His	Cys	Phe	Lys	Cys	Val	Ala	Cys	Glu	530	535	540
Cys	Asp	Leu	Gly	Gly	Ser	Ser	Ser	Gly	Ala	Glu	Val	Arg	Ile	Arg	545	550	555
Asn	His	Gln	Leu	Tyr	Cys	Asn	Asp	Cys	Tyr	Leu	Arg	Phe	Lys	Ser	560	565	570
Gly	Arg	Pro	Thr	Ala	Met										575		

<210> 26

<211> 408

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1425691CD1

<400> 26

Met	Pro	Gly	His	Leu	Gln	Glu	Gly	Phe	Gly	Cys	Val	Val	Thr	Asn	1	5	10	15
Arg	Phe	Asp	Gln	Leu	Phe	Asp	Asp	Glu	Ser	Asp	Pro	Phe	Glu	Val	20	25	30	
Leu	Lys	Ala	Ala	Glu	Asn	Lys	Lys	Lys	Glu	Ala	Gly	Gly	Gly	Gly	35	40	45	
Val	Gly	Gly	Pro	Gly	Ala	Lys	Ser	Ala	Ala	Gln	Ala	Ala	Ala	Gln	50	55	60	
Thr	Asn	Ser	Asn	Ala	Ala	Gly	Lys	Gln	Leu	Arg	Lys	Glu	Ser	Gln	65	70	75	
Lys	Asp	Arg	Lys	Asn	Pro	Leu	Pro	Pro	Ser	Val	Gly	Val	Val	Asp	80	85	90	
Lys	Lys	Glu	Glu	Thr	Gln	Pro	Pro	Val	Ala	Leu	Lys	Lys	Glu	Gly	95	100	105	
Ile	Arg	Arg	Val	Gly	Arg	Arg	Pro	Asp	Gln	Gln	Leu	Gln	Gly	Glu				

PF-0509 USN

	110		115		120
Gly Lys Ile Ile	Asp Arg Arg Pro Glu	Arg Arg Pro Pro Arg	Glu		
	125		130		135
Arg Arg Phe Glu	Lys Pro Leu Glu Glu	Lys Gly Glu Gly Gly	Glu		
	140		145		150
Phe Ser Val Asp	Arg Pro Ile Ile Asp	Arg Pro Ile Arg Gly	Arg		
	155		160		165
Gly Gly Leu Gly	Arg Gly Arg Gly Gly	Arg Gly Arg Gly Met	Gly		
	170		175		180
Arg Gly Asp Gly	Phe Asp Ser Arg Gly	Lys Arg Glu Phe Asp	Arg		
	185		190		195
His Ser Gly Ser	Asp Arg Ser Ser Phe	Ser His Tyr Ser Gly	Leu		
	200		205		210
Lys His Glu Asp	Lys Arg Gly Gly Ser	Gly Ser His Asn Trp	Gly		
	215		220		225
Thr Val Lys Asp	Glu Leu Thr Glu Ser	Pro Lys Tyr Ile Gln	Lys		
	230		235		240
Gln Ile Ser Tyr	Asn Tyr Ser Asp Leu	Asp Gln Ser Asn Val	Thr		
	245		250		255
Glu Glu Thr Pro	Glu Gly Glu Glu His	His Pro Val Ala Asp	Thr		
	260		265		270
Glu Asn Lys Glu	Asn Glu Val Glu Glu	Val Lys Glu Glu Gly	Pro		
	275		280		285
Lys Glu Met Thr	Leu Asp Glu Trp Lys	Ala Ile Gln Asn Lys	Asp		
	290		295		300
Arg Ala Lys Val	Glu Phe Asn Ile Arg	Lys Pro Asn Glu Gly	Ala		
	305		310		315
Asp Gly Gln Trp	Lys Lys Gly Phe Val	Leu His Lys Ser Lys	Ser		
	320		325		330
Glu Glu Ala His	Ala Glu Asp Ser Val	Met Asp His His Phe	Arg		
	335		340		345
Lys Pro Ala Asn	Asp Ile Thr Ser Gln	Leu Glu Ile Asn Phe	Gly		
	350		355		360
Asp Leu Gly Arg	Pro Gly Arg Gly Gly	Arg Gly Gly Arg Gly	Gly		
	365		370		375
Arg Gly Arg Gly	Gly Arg Pro Asn Arg	Gly Ser Arg Thr Asp	Lys		
	380		385		390
Ser Ser Ala Ser	Ala Pro Asp Val Asp	Asp Pro Glu Ala Phe	Pro		
	395		400		405
Ala Leu Ala					

<210> 27
 <211> 810
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1484257CD1

<400> 27
 Met Asp Phe Pro Gln His Ser Gln His Val Leu Glu Gln Leu Asn
 1 5 10 15

PF-0509 USN

Gln	Gln	Arg	Gln	Leu	Gly	Leu	Leu	Cys	Asp	Cys	Thr	Phe	Val	Val	20	25	30
Asp	Gly	Val	His	Phe	Lys	Ala	His	Lys	Ala	Val	Leu	Ala	Ala	Cys	35	40	45
Ser	Glu	Tyr	Phe	Lys	Met	Leu	Phe	Val	Asp	Gln	Lys	Asp	Val	Val	50	55	60
His	Leu	Asp	Ile	Ser	Asn	Ala	Ala	Gly	Leu	Gly	Gln	Val	Leu	Glu	65	70	75
Phe	Met	Tyr	Thr	Ala	Lys	Leu	Ser	Leu	Ser	Pro	Glu	Asn	Val	Asp	80	85	90
Asp	Val	Leu	Ala	Val	Ala	Thr	Phe	Leu	Gln	Met	Gln	Asp	Ile	Ile	95	100	105
Thr	Ala	Cys	His	Ala	Leu	Lys	Ser	Leu	Ala	Glu	Pro	Ala	Thr	Ser	110	115	120
Pro	Gly	Gly	Asn	Ala	Glu	Ala	Leu	Ala	Gln	Lys	Val	Cys	Pro	Val	125	130	135
Pro	Ser	Pro	Gly	Gly	Asp	Lys	Arg	Ala	Lys	Glu	Glu	Lys	Val	Ala	140	145	150
Thr	Ser	Thr	Leu	Ser	Arg	Leu	Glu	Gln	Ala	Gly	Arg	Ser	Thr	Pro	155	160	165
Ile	Gly	Pro	Ser	Arg	Asp	Leu	Lys	Glu	Glu	Arg	Gly	Gly	Gln	Ala	170	175	180
Gln	Ser	Ala	Ala	Ser	Gly	Ala	Glu	Gln	Thr	Glu	Lys	Ala	Asp	Ala	185	190	195
Pro	Arg	Glu	Pro	Pro	Pro	Val	Glu	Leu	Lys	Pro	Asp	Pro	Thr	Ser	200	205	210
Gly	Met	Ala	Ala	Ala	Glu	Ala	Glu	Ala	Ala	Leu	Ser	Glu	Ser	Ser	215	220	225
Glu	Gln	Glu	Met	Glu	Val	Glu	Pro	Ala	Arg	Lys	Gly	Glu	Glu	Glu	230	235	240
Gln	Lys	Glu	Gln	Glu	Glu	Gln	Glu	Glu	Glu	Gly	Ala	Gly	Pro	Ala	245	250	255
Glu	Val	Lys	Glu	Glu	Gly	Ser	Gln	Leu	Glu	Asn	Gly	Glu	Ala	Pro	260	265	270
Glu	Glu	Asn	Glu	Asn	Glu	Glu	Ser	Ala	Gly	Thr	Asp	Ser	Gly	Gln	275	280	285
Glu	Leu	Gly	Ser	Glu	Ala	Arg	Gly	Leu	Arg	Ser	Gly	Thr	Tyr	Gly	290	295	300
Asp	Arg	Thr	Glu	Ser	Lys	Ala	Tyr	Gly	Ser	Val	Ile	His	Lys	Cys	305	310	315
Glu	Asp	Cys	Gly	Lys	Glu	Phe	Thr	His	Thr	Gly	Asn	Phe	Lys	Arg	320	325	330
His	Ile	Arg	Ile	His	Thr	Gly	Glu	Lys	Pro	Phe	Ser	Cys	Arg	Glu	335	340	345
Cys	Ser	Lys	Ala	Phe	Ser	Asp	Pro	Ala	Ala	Cys	Glu	Ala	His	Glu	350	355	360
Lys	Thr	His	Ser	Pro	Leu	Lys	Pro	Tyr	Gly	Cys	Glu	Glu	Cys	Gly	365	370	375
Lys	Ser	Tyr	Arg	Leu	Ile	Ser	Leu	Leu	Asn	Leu	His	Lys	Lys	Arg	380	385	390
His	Ser	Gly	Glu	Ala	Arg	Tyr	Arg	Cys	Glu	Asp	Cys	Gly	Lys	Leu	395	400	405
Phe	Thr	Thr	Ser	Gly	Asn	Leu	Lys	Arg	His	Gln	Leu	Val	His	Ser	410	415	420

PF-0509 USN

Gly	Glu	Lys	Pro	Tyr	Gln	Cys	Asp	Tyr	Cys	Gly	Arg	Ser	Phe	Ser	
				425					430					435	
Asp	Pro	Thr	Ser	Lys	Met	Arg	His	Leu	Glu	Thr	His	Asp	Thr	Asp	
				440					445					450	
Lys	Glu	His	Lys	Cys	Pro	His	Cys	Asp	Lys	Lys	Phe	Asn	Gln	Val	
				455					460					465	
Gly	Asn	Leu	Lys	Ala	His	Leu	Lys	Ile	His	Ile	Ala	Asp	Gly	Pro	
				470					475					480	
Leu	Lys	Cys	Arg	Glu	Cys	Gly	Lys	Gln	Phe	Thr	Thr	Ser	Gly	Asn	
				485					490					495	
Leu	Lys	Arg	His	Leu	Arg	Ile	His	Ser	Gly	Glu	Lys	Pro	Tyr	Val	
				500					505					510	
Cys	Ile	His	Cys	Gln	Arg	Gln	Phe	Ala	Asp	Pro	Gly	Ala	Leu	Gln	
				515					520					525	
Arg	His	Val	Arg	Ile	His	Thr	Gly	Glu	Lys	Pro	Cys	Gln	Cys	Val	
				530					535					540	
Met	Cys	Gly	Lys	Ala	Phe	Thr	Gln	Ala	Ser	Ser	Leu	Ile	Ala	His	
				545					550					555	
Val	Arg	Gln	His	Thr	Gly	Glu	Lys	Pro	Tyr	Val	Cys	Glu	Arg	Cys	
				560					565					570	
Gly	Lys	Arg	Phe	Val	Gln	Ser	Ser	Gln	Leu	Ala	Asn	His	Ile	Arg	
				575					580					585	
His	His	Asp	Asn	Ile	Arg	Pro	His	Lys	Cys	Ser	Val	Cys	Ser	Lys	
				590					595					600	
Ala	Phe	Val	Asn	Val	Gly	Asp	Leu	Ser	Lys	His	Ile	Ile	Ile	His	
				605					610					615	
Thr	Gly	Glu	Lys	Pro	Tyr	Leu	Cys	Asp	Lys	Cys	Gly	Arg	Gly	Phe	
				620					625					630	
Asn	Arg	Val	Asp	Asn	Leu	Arg	Ser	His	Val	Lys	Thr	Val	His	Gln	
				635					640					645	
Gly	Lys	Ala	Gly	Ile	Lys	Ile	Leu	Glu	Pro	Glu	Glu	Gly	Ser	Glu	
				650					655					660	
Val	Ser	Val	Val	Thr	Val	Asp	Asp	Met	Val	Thr	Leu	Ala	Thr	Glu	
				665					670					675	
Ala	Leu	Ala	Ala	Thr	Ala	Val	Thr	Gln	Leu	Thr	Val	Val	Pro	Val	
				680					685					690	
Gly	Ala	Ala	Val	Thr	Ala	Asp	Glu	Thr	Glu	Val	Leu	Lys	Ala	Glu	
				695					700					705	
Ile	Ser	Lys	Ala	Val	Lys	Gln	Val	Gln	Glu	Glu	Asp	Pro	Asn	Thr	
				710					715					720	
His	Ile	Leu	Tyr	Ala	Cys	Asp	Ser	Cys	Gly	Asp	Lys	Phe	Leu	Asp	
				725					730					735	
Ala	Asn	Ser	Leu	Ala	Gln	His	Val	Arg	Ile	His	Thr	Ala	Gln	Ala	
				740					745					750	
Leu	Val	Met	Phe	Gln	Thr	Asp	Ala	Asp	Phe	Tyr	Gln	Gln	Tyr	Gly	
				755					760					765	
Pro	Gly	Gly	Thr	Trp	Pro	Ala	Gly	Gln	Val	Leu	Gln	Ala	Gly	Glu	
				770					775					780	
Leu	Val	Phe	Arg	Pro	Arg	Asp	Gly	Ala	Glu	Gly	Gln	Pro	Ala	Leu	
				785					790					795	
Ala	Glu	Thr	Ser	Pro	Thr	Ala	Pro	Glu	Cys	Pro	Pro	Pro	Ala	Glu	
				800					805					810	

PF-0509 USN

<210> 28

<211> 324

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1732368CD1

<400> 28

Met	Asp	Trp	Ser	Glu	Val	Lys	Glu	Glu	Lys	Asp	Asn	Leu	Glu	Ile
1				5					10					15
Lys	Gln	Glu	Glu	Lys	Phe	Val	Gly	Gln	Cys	Ile	Lys	Glu	Glu	Leu
				20					25					30
Met	His	Gly	Glu	Cys	Val	Lys	Glu	Glu	Lys	Asp	Phe	Leu	Lys	Lys
				35					40					45
Glu	Ile	Val	Asp	Asp	Thr	Lys	Val	Lys	Glu	Glu	Pro	Pro	Ile	Asn
				50					55					60
His	Pro	Val	Gly	Cys	Lys	Arg	Lys	Leu	Ala	Met	Ser	Arg	Cys	Glu
				65					70					75
Thr	Cys	Gly	Thr	Glu	Glu	Ala	Lys	Tyr	Arg	Cys	Pro	Arg	Cys	Met
				80					85					90
Arg	Tyr	Ser	Cys	Ser	Leu	Pro	Cys	Val	Lys	Lys	His	Lys	Ala	Glu
				95					100					105
Leu	Thr	Cys	Asn	Gly	Val	Arg	Asp	Lys	Thr	Ala	Tyr	Ile	Ser	Ile
				110					115					120
Gln	Gln	Phe	Thr	Glu	Met	Asn	Leu	Leu	Ser	Asp	Tyr	Arg	Phe	Leu
				125					130					135
Glu	Asp	Val	Ala	Arg	Thr	Ala	Asp	His	Ile	Ser	Arg	Asp	Ala	Phe
				140					145					150
Leu	Lys	Arg	Pro	Ile	Ser	Asn	Lys	Tyr	Met	Tyr	Phe	Met	Lys	Asn
				155					160					165
Arg	Ala	Arg	Arg	Gln	Gly	Ile	Asn	Leu	Lys	Leu	Leu	Pro	Asn	Gly
				170					175					180
Phe	Thr	Lys	Arg	Lys	Glu	Asn	Ser	Thr	Phe	Phe	Asp	Lys	Lys	Lys
				185					190					195
Gln	Gln	Phe	Cys	Trp	His	Val	Lys	Leu	Gln	Phe	Pro	Gln	Ser	Gln
				200					205					210
Ala	Glu	Tyr	Ile	Glu	Lys	Arg	Val	Pro	Asp	Asp	Lys	Thr	Ile	Asn
				215					220					225
Glu	Ile	Leu	Lys	Pro	Tyr	Ile	Asp	Pro	Glu	Lys	Ser	Asp	Pro	Val
				230					235					240
Ile	Arg	Gln	Arg	Leu	Lys	Ala	Tyr	Ile	Arg	Ser	Gln	Thr	Gly	Val
				245					250					255
Gln	Ile	Leu	Met	Lys	Ile	Glu	Tyr	Met	Gln	Gln	Asn	Leu	Val	Arg
				260					265					270
Tyr	Tyr	Glu	Leu	Asp	Pro	Tyr	Lys	Ser	Leu	Leu	Asp	Asn	Leu	Arg
				275					280					285
Asn	Lys	Val	Ile	Ile	Glu	Tyr	Pro	Thr	Leu	His	Val	Val	Leu	Lys
				290					295					300
Gly	Ser	Asn	Asn	Asp	Met	Lys	Val	Leu	His	Gln	Val	Lys	Ser	Glu
				305					310					315
Ser	Thr	Lys	Asn	Val	Gly	Asn	Glu	Asn						
				320										

PF-0509 USN

<210> 29
<211> 292
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1870914CD1

<400> 29
Met Glu Glu Val Pro His Asp Cys Pro Gly Ala Asp Ser Ala Gln
1 5 10 15
Ala Gly Arg Gly Ala Ser Cys Gln Gly Cys Pro Asn Gln Arg Leu
20 25 30
Cys Ala Ser Gly Ala Gly Ala Thr Pro Asp Thr Ala Ile Glu Glu
35 40 45
Ile Lys Glu Lys Met Lys Thr Val Lys His Lys Ile Leu Val Leu
50 55 60
Ser Gly Lys Gly Gly Val Gly Lys Ser Thr Phe Ser Ala His Leu
65 70 75
Ala His Gly Leu Ala Glu Asp Glu Asn Thr Gln Ile Ala Leu Leu
80 85 90
Asp Ile Asp Ile Cys Gly Pro Ser Ile Pro Lys Ile Met Gly Leu
95 100 105
Glu Gly Glu Gln Val His Gln Ser Gly Ser Gly Trp Ser Pro Val
110 115 120
Tyr Val Glu Asp Asn Leu Gly Val Met Ser Val Gly Phe Leu Leu
125 130 135
Ser Ser Pro Asp Asp Ala Val Ile Trp Arg Gly Pro Lys Lys Asn
140 145 150
Gly Met Ile Lys Gln Phe Leu Arg Asp Val Asp Trp Gly Glu Val
155 160 165
Asp Tyr Leu Ile Val Asp Thr Pro Pro Gly Thr Ser Asp Glu His
170 175 180
Leu Ser Val Val Arg His Leu Ala Thr Ala His Ile Asp Gly Ala
185 190 195
Val Ile Ile Thr Thr Pro Gln Glu Val Ser Leu Gln Asp Val Arg
200 205 210
Lys Glu Ile Asn Phe Cys Arg Lys Val Lys Leu Pro Ile Ile Gly
215 220 225
Val Val Glu Asn Met Ser Gly Phe Ile Cys Pro Lys Cys Lys Lys
230 235 240
Glu Ser Gln Ile Phe Pro Pro Thr Thr Gly Gly Ala Glu Leu Met
245 250 255
Cys Gln Asp Leu Glu Val Pro Leu Leu Gly Arg Val Pro Leu Asp
260 265 270
Pro Leu Ile Gly Ile Gln Glu Phe Cys Asn Leu His Gln Ser Lys
275 280 285
Glu Glu Asn Leu Ile Ser Ser
290

<210> 30
<211> 259
<212> PRT

PF-0509 USN

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1910984CD1

<400> 30

Met	Glu	Cys	His	Leu	Lys	Thr	His	Tyr	Lys	Met	Glu	Tyr	Lys	Cys
1				5					10					15
Arg	Ile	Cys	Gln	Thr	Val	Lys	Ala	Asn	Gln	Leu	Glu	Leu	Glu	Thr
				20					25					30
His	Thr	Arg	Glu	His	Arg	Leu	Gly	Asn	His	Tyr	Lys	Cys	Asp	Gln
				35					40					45
Cys	Gly	Tyr	Leu	Ser	Lys	Thr	Ala	Asn	Lys	Leu	Ile	Glu	His	Val
				50					55					60
Arg	Val	His	Thr	Gly	Glu	Arg	Pro	Phe	His	Cys	Asp	Gln	Cys	Ser
				65					70					75
Tyr	Ser	Cys	Thr	Gly	Lys	Asp	Asn	Leu	Asn	Leu	His	Lys	Lys	Leu
				80					85					90
Lys	His	Ala	Pro	Arg	Gln	Thr	Phe	Ser	Cys	Glu	Glu	Cys	Leu	Phe
				95					100					105
Lys	Thr	Thr	His	Pro	Phe	Val	Phe	Ser	Arg	His	Val	Lys	Lys	His
				110					115					120
Gln	Ser	Gly	Asp	Cys	Pro	Glu	Glu	Asp	Lys	Lys	Gly	Leu	Cys	Pro
				125					130					135
Ala	Pro	Lys	Glu	Pro	Ala	Gly	Pro	Gly	Ala	Pro	Leu	Leu	Val	Val
				140					145					150
Gly	Ser	Ser	Arg	Asn	Leu	Leu	Ser	Pro	Leu	Ser	Val	Met	Ser	Ala
				155					160					165
Ser	Gln	Ala	Leu	Gln	Thr	Val	Ala	Leu	Ser	Ala	Ala	His	Gly	Ser
				170					175					180
Ser	Ser	Glu	Pro	Asn	Leu	Ala	Leu	Lys	Ala	Leu	Ala	Phe	Asn	Gly
				185					190					195
Ser	Pro	Leu	Arg	Phe	Asp	Lys	Tyr	Arg	Asn	Ser	Asp	Phe	Ala	His
				200					205					210
Leu	Ile	Pro	Leu	Thr	Met	Leu	Tyr	Pro	Lys	Asn	His	Leu	Asp	Leu
				215					220					225
Thr	Phe	His	Pro	Pro	Arg	Pro	Gln	Thr	Ala	Pro	Pro	Ser	Ile	Pro
				230					235					240
Ser	Pro	Lys	His	Ser	Phe	Leu	Ala	Tyr	Leu	Gly	Leu	Arg	Glu	Arg
				245					250					255

Ala Glu Thr Val

<210> 31

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1943040CD1

<400> 31

PF-0509 USN

Met	Glu	His	His	Ser	Ser	His	Gly	Gly	Arg	Lys	Arg	Tyr	Ala	Cys	
1				5					10					15	
Gln	Gly	Cys	Trp	Lys	Thr	Phe	His	Phe	Ser	Leu	Ala	Leu	Ala	Glu	
				20					25					30	
His	Gln	Lys	Thr	His	Glu	Lys	Glu	Lys	Ser	Tyr	Ala	Leu	Gly	Gly	
				35					40					45	
Ala	Arg	Gly	Pro	Gln	Pro	Ser	Thr	Arg	Glu	Pro	Arg	Arg	Gly	Leu	
				50					55					60	
Gly	Arg	Ala	Val	Pro	Gln	Arg	Ala	Trp	Arg	Ala	Arg	Leu	Pro	Pro	
				65					70					75	
His	Pro	Gln	Arg	Arg	Arg	Gly	Glu	Pro	Leu	Cys	Cys	Pro	Val	Pro	
				80					85					90	
Glu	Gly	Pro	Leu	Cys	Arg	Pro									
				95											

<210> 32

<211> 812

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2076520CD1

<400> 32

Met	Ile	Glu	Pro	Asp	Gln	Cys	Phe	Cys	Arg	Phe	Asp	Leu	Thr	Gly	
1				5					10					15	
Thr	Cys	Asn	Asp	Asp	Asp	Cys	Gln	Trp	Gln	His	Ile	Gln	Asp	Tyr	
				20					25					30	
Thr	Leu	Ser	Arg	Lys	Gln	Leu	Phe	Gln	Asp	Ile	Leu	Ser	Tyr	Asn	
				35					40					45	
Leu	Ser	Leu	Ile	Gly	Cys	Ala	Glu	Thr	Ser	Thr	Asn	Glu	Glu	Ile	
				50					55					60	
Thr	Ala	Ser	Ala	Glu	Lys	Tyr	Val	Glu	Lys	Leu	Phe	Gly	Val	Asn	
				65					70					75	
Lys	Asp	Arg	Met	Ser	Met	Asp	Gln	Met	Ala	Val	Leu	Leu	Val	Ser	
				80					85					90	
Asn	Ile	Asn	Glu	Ser	Lys	Gly	His	Thr	Pro	Pro	Phe	Thr	Thr	Tyr	
				95					100					105	
Lys	Asp	Lys	Arg	Lys	Trp	Lys	Pro	Lys	Phe	Trp	Arg	Lys	Pro	Ile	
				110					115					120	
Ser	Asp	Asn	Ser	Phe	Ser	Ser	Asp	Glu	Glu	Gln	Ser	Thr	Gly	Pro	
				125					130					135	
Ile	Lys	Tyr	Ala	Phe	Gln	Pro	Glu	Asn	Gln	Ile	Asn	Val	Pro	Ala	
				140					145					150	
Leu	Asp	Thr	Val	Val	Thr	Pro	Asp	Asp	Val	Arg	Tyr	Phe	Thr	Asn	
				155					160					165	
Glu	Thr	Asp	Asp	Ile	Ala	Asn	Leu	Glu	Ala	Ser	Val	Leu	Glu	Asn	
				170					175					180	
Pro	Ser	His	Val	Gln	Leu	Trp	Leu	Lys	Leu	Ala	Tyr	Lys	Tyr	Leu	
				185					190					195	
Asn	Gln	Asn	Glu	Gly	Glu	Cys	Ser	Glu	Ser	Leu	Asp	Ser	Ala	Leu	
				200					205					210	
Asn	Val	Leu	Ala	Arg	Ala	Leu	Glu	Asn	Asn	Lys	Asp	Asn	Pro	Glu	

	215		220		225
Ile Trp Cys His Tyr	Leu Arg Leu Phe	Ser Lys Arg Gly Thr	Lys		
	230		235		240
Asp Glu Val Gln Glu	Met Cys Glu Thr	Ala Val Glu Tyr Ala	Pro		
	245		250		255
Asp Tyr Gln Ser Phe	Trp Thr Phe Leu	His Leu Glu Ser Thr	Phe		
	260		265		270
Glu Glu Lys Asp Tyr	Val Cys Glu Arg	Met Leu Glu Phe Leu	Met		
	275		280		285
Gly Ala Ala Lys Gln	Glu Thr Ser Asn	Ile Leu Ser Phe Gln	Leu		
	290		295		300
Leu Glu Ala Leu Leu	Phe Arg Val Gln	Leu His Ile Phe Thr	Gly		
	305		310		315
Arg Cys Gln Ser Ala	Leu Ala Ile Leu	Gln Asn Ala Leu Lys	Ser		
	320		325		330
Ala Asn Asp Gly Ile	Val Ala Glu Tyr	Leu Lys Thr Ser Asp	Arg		
	335		340		345
Cys Leu Ala Trp Leu	Ala Tyr Ile His	Leu Ile Glu Phe Asn	Ile		
	350		355		360
Leu Pro Ser Lys Phe	Tyr Asp Pro Ser	Asn Asp Asn Pro Ser	Arg		
	365		370		375
Ile Val Asn Thr Glu	Ser Phe Val Met	Pro Trp Gln Ala Val	Gln		
	380		385		390
Asp Val Lys Thr Asn	Pro Asp Met Leu	Leu Ala Val Phe Glu	Asp		
	395		400		405
Ala Val Lys Ala Cys	Thr Asp Glu Ser	Leu Ala Val Glu Glu	Arg		
	410		415		420
Ile Glu Ala Cys Leu	Pro Leu Tyr Thr	Asn Met Ile Ala Leu	His		
	425		430		435
Gln Leu Leu Glu Arg	Tyr Glu Ala Ala	Met Glu Leu Cys Lys	Ser		
	440		445		450
Leu Leu Glu Ser Cys	Pro Ile Asn Cys	Gln Leu Leu Glu Ala	Leu		
	455		460		465
Val Ala Leu Tyr Leu	Gln Thr Asn Gln	His Asp Lys Ala Arg	Ala		
	470		475		480
Val Trp Leu Thr Ala	Phe Glu Lys Asn	Pro Gln Asn Ala Glu	Val		
	485		490		495
Phe Tyr His Met Cys	Lys Phe Phe Ile	Leu Gln Asn Arg Gly	Asp		
	500		505		510
Asn Leu Leu Pro Phe	Leu Arg Lys Phe	Ile Ala Ser Phe Phe	Lys		
	515		520		525
Pro Gly Phe Glu Lys	Tyr Asn Asn Leu	Asp Leu Phe Arg Tyr	Leu		
	530		535		540
Leu Asn Ile Pro Gly	Pro Ile Asp Ile	Pro Ser Arg Leu Cys	Lys		
	545		550		555
Gly Asn Phe Asp Asp	Asp Met Phe Asn	His Gln Val Pro Tyr	Leu		
	560		565		570
Trp Leu Ile Tyr Cys	Leu Cys His Pro	Leu Gln Ser Ser Ile	Lys		
	575		580		585
Glu Thr Val Glu Ala	Tyr Glu Ala Ala	Leu Gly Val Ala Met	Arg		
	590		595		600
Cys Asp Ile Val Gln	Lys Ile Trp Met	Asp Tyr Leu Val Phe	Ala		
	605		610		615
Asn Asn Arg Ala Ala	Gly Ser Arg Asn	Lys Val Gln Glu Phe	Arg		

PF-0509 USN

	620		625		630
Phe Phe Thr Asp	Leu Val Asn Arg Cys	Leu Val Thr Val Pro	Ala		
	635		640		645
Arg Tyr Pro Ile	Pro Phe Ser Ser Ala	Asp Tyr Trp Ser Asn	Tyr		
	650		655		660
Glu Phe His Asn	Arg Val Ile Phe Phe	Tyr Leu Ser Cys Val	Pro		
	665		670		675
Lys Thr Gln His	Ser Lys Thr Leu Glu	Arg Phe Cys Ser Val	Met		
	680		685		690
Pro Ala Asn Ser	Gly Leu Ala Leu Arg	Leu Leu Gln His Glu	Trp		
	695		700		705
Glu Glu Ser Asn	Val Gln Ile Leu Lys	Leu Gln Ala Lys Met	Phe		
	710		715		720
Thr Tyr Asn Ile	Pro Thr Cys Leu Ala	Thr Trp Lys Ile Ala	Ile		
	725		730		735
Ala Ala Glu Ile	Val Leu Lys Gly Gln	Arg Glu Val His Arg	Leu		
	740		745		750
Tyr Gln Arg Ala	Leu Gln Lys Leu Pro	Leu Cys Ala Ser Leu	Trp		
	755		760		765
Lys Asp Gln Leu	Leu Phe Glu Ala Ser	Glu Gly Gly Lys Thr	Asp		
	770		775		780
Asn Leu Arg Lys	Leu Val Ser Lys Cys	Gln Glu Ile Gly Val	Ser		
	785		790		795
Leu Asn Glu Leu	Leu Asn Leu Asn Ser	Asn Lys Thr Glu Ser	Lys		
	800		805		810
Asn His					

<210> 33

<211> 392

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2291241CD1

<400> 33

Met Asp Ala Leu Val	Glu Asp Asp Ile Cys	Ile Leu Asn His Glu		
1	5	10	15	
Lys Ala His Lys Arg	Asp Thr Val Thr Pro	Val Ser Ile Tyr Ser		
	20	25	30	
Gly Asp Glu Ser Val	Ala Ser His Phe Ala	Leu Val Thr Ala Tyr		
	35	40	45	
Glu Asp Ile Lys Lys	Arg Leu Lys Asp Ser	Glu Lys Glu Asn Ser		
	50	55	60	
Leu Leu Lys Lys Arg	Ile Arg Phe Leu Glu	Glu Lys Leu Ile Ala		
	65	70	75	
Arg Phe Glu Glu Glu	Thr Ser Ser Val Gly	Arg Glu Gln Val Asn		
	80	85	90	
Lys Ala Tyr His Ala	Tyr Arg Glu Val Cys	Ile Asp Arg Asp Asn		
	95	100	105	
Leu Lys Ser Lys Leu	Asp Lys Met Asn Lys	Asp Asn Ser Glu Ser		
	110	115	120	

PF-0509 USN

Leu	Lys	Val	Leu	Asn	Glu	Gln	Leu	Gln	Ser	Lys	Glu	Val	Glu	Leu			
				125					130					135			
Leu	Gln	Leu	Arg	Thr	Glu	Val	Glu	Thr	Gln	Gln	Val	Met	Arg	Asn			
				140					145					150			
Leu	Asn	Pro	Pro	Ser	Ser	Asn	Trp	Glu	Val	Glu	Lys	Leu	Ser	Cys			
				155					160					165			
Asp	Leu	Lys	Ile	His	Gly	Leu	Glu	Gln	Glu	Leu	Glu	Leu	Met	Arg			
				170					175					180			
Lys	Glu	Cys	Ser	Asp	Leu	Lys	Ile	Glu	Leu	Gln	Lys	Ala	Lys	Gln			
				185					190					195			
Thr	Asp	Pro	Tyr	Gln	Glu	Asp	Asn	Leu	Lys	Ser	Arg	Asp	Leu	Gln			
				200					205					210			
Lys	Leu	Ser	Ile	Ser	Ser	Asp	Asn	Met	Gln	His	Ala	Tyr	Trp	Glu			
				215					220					225			
Leu	Lys	Arg	Glu	Met	Ser	Asn	Leu	His	Leu	Val	Thr	Gln	Val	Gln			
				230					235					240			
Ala	Glu	Leu	Leu	Arg	Lys	Leu	Lys	Thr	Ser	Thr	Ala	Ile	Lys	Lys			
				245					250					255			
Ala	Cys	Ala	Pro	Val	Gly	Cys	Ser	Glu	Asp	Leu	Gly	Arg	Asp	Ser			
				260					265					270			
Thr	Lys	Leu	His	Leu	Met	Asn	Phe	Thr	Ala	Thr	Tyr	Thr	Arg	His			
				275					280					285			
Pro	Pro	Leu	Leu	Pro	Asn	Gly	Lys	Ala	Leu	Cys	His	Thr	Thr	Ser			
				290					295					300			
Ser	Pro	Leu	Pro	Gly	Asp	Val	Lys	Val	Leu	Ser	Glu	Lys	Ala	Ile			
				305					310					315			
Leu	Gln	Ser	Trp	Thr	Asp	Asn	Glu	Arg	Ser	Ile	Pro	Asn	Asp	Gly			
				320					325					330			
Thr	Cys	Phe	Gln	Glu	His	Ser	Ser	Tyr	Gly	Arg	Asn	Ser	Leu	Glu			
				335					340					345			
Asp	Asn	Ser	Trp	Val	Phe	Pro	Ser	Pro	Pro	Lys	Ser	Ser	Glu	Thr			
				350					355					360			
Ala	Phe	Gly	Glu	Thr	Lys	Thr	Lys	Thr	Leu	Pro	Leu	Pro	Asn	Leu			
				365					370					375			
Pro	Pro	Leu	His	Tyr	Leu	Asp	Gln	His	Asn	Gln	Asn	Cys	Leu	Tyr			
				380					385					390			

Lys Asn

<210> 34

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2329692CD1

<400> 34

Met	Ile	Tyr	Phe	Phe	Ile	Ile	Ile	Val	Glu	Tyr	Phe	Tyr	Gly	Lys			
1				5					10					15			
Ile	Phe	Val	Val	Leu	Ile	Ile	Pro	Ile	Lys	Ile	Met	Pro	Asn	Thr			
				20					25					30			
Lys	Tyr	Glu	Phe	Tyr	Asp	Val	His	Phe	Val	Leu	Gly	Ile	Lys	Arg			

PF-0509 USN

				35					40					45
Lys	Lys	His	Thr	Ser	Trp	Lys	Ser	Val	Ser	Cys	Phe	Leu	Leu	Leu
				50					55					60

<210> 35

<211> 209

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2474110CD1

<400> 35

Met	Asp	Pro	Ser	Asp	Ile	Tyr	Ala	Val	Ile	Gln	Ile	Pro	Gly	Ser
1				5					10					15
Arg	Glu	Phe	Asp	Val	Ser	Phe	Arg	Ser	Ala	Glu	Lys	Leu	Ala	Leu
				20					25					30
Phe	Leu	Arg	Val	Tyr	Glu	Glu	Lys	Arg	Glu	Gln	Glu	Asp	Cys	Trp
				35					40					45
Glu	Asn	Phe	Val	Val	Leu	Gly	Arg	Ser	Lys	Ser	Ser	Leu	Lys	Thr
				50					55					60
Leu	Phe	Ile	Leu	Phe	Arg	Asn	Glu	Thr	Val	Asp	Val	Glu	Asp	Ile
				65					70					75
Val	Thr	Trp	Leu	Lys	Arg	His	Cys	Asp	Val	Leu	Ala	Val	Pro	Val
				80					85					90
Lys	Val	Thr	Asp	Arg	Phe	Gly	Ile	Trp	Thr	Gly	Glu	Tyr	Lys	Cys
				95					100					105
Glu	Ile	Glu	Leu	Arg	Gln	Gly	Glu	Gly	Gly	Val	Arg	His	Leu	Pro
				110					115					120
Gly	Ala	Phe	Phe	Leu	Gly	Ala	Glu	Arg	Gly	Tyr	Ser	Trp	Tyr	Lys
				125					130					135
Gly	Gln	Pro	Lys	Thr	Cys	Phe	Lys	Cys	Gly	Ser	Arg	Thr	His	Met
				140					145					150
Ser	Gly	Ser	Cys	Thr	Gln	Asp	Arg	Cys	Phe	Arg	Cys	Arg	Glu	Glu
				155					160					165
Gly	His	Leu	Ser	Pro	Tyr	Cys	Arg	Lys	Gly	Ile	Val	Cys	Asn	Leu
				170					175					180
Cys	Gly	Lys	Arg	Gly	His	Ala	Phe	Ala	Gln	Cys	Pro	Lys	Ala	Val
				185					190					195
His	Asn	Ser	Val	Ala	Ala	Gln	Leu	Thr	Gly	Val	Ala	Gly	His	
				200					205					

<210> 36

<211> 257

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2495790CD1

<400> 36

PF-0509 USN

Met	Val	Gly	Ala	Gly	Ile	Ser	Thr	Pro	Ser	Gly	Ile	Pro	Asp	Phe
1				5					10					15
Arg	Ser	Pro	Gly	Ser	Gly	Leu	Tyr	Ser	Asn	Leu	Gln	Gln	Tyr	Asp
				20					25					30
Leu	Pro	Tyr	Pro	Glu	Ala	Ile	Phe	Glu	Leu	Pro	Phe	Phe	Phe	His
				35					40					45
Asn	Pro	Lys	Pro	Phe	Phe	Thr	Leu	Ala	Lys	Glu	Leu	Tyr	Pro	Gly
				50					55					60
Asn	Tyr	Lys	Pro	Asn	Val	Thr	His	Tyr	Phe	Leu	Arg	Leu	Leu	His
				65					70					75
Asp	Lys	Gly	Leu	Leu	Leu	Arg	Leu	Tyr	Thr	Gln	Asn	Ile	Asp	Gly
				80					85					90
Leu	Glu	Arg	Val	Ser	Gly	Ile	Pro	Ala	Ser	Lys	Leu	Val	Glu	Ala
				95					100					105
His	Gly	Thr	Phe	Ala	Ser	Ala	Thr	Cys	Thr	Val	Cys	Gln	Arg	Pro
				110					115					120
Phe	Pro	Gly	Glu	Asp	Ile	Arg	Ala	Asp	Val	Met	Ala	Asp	Arg	Val
				125					130					135
Pro	Arg	Cys	Pro	Val	Cys	Thr	Gly	Val	Val	Lys	Pro	Asp	Ile	Val
				140					145					150
Phe	Phe	Gly	Glu	Pro	Leu	Pro	Gln	Arg	Phe	Leu	Leu	His	Val	Val
				155					160					165
Asp	Phe	Pro	Met	Ala	Asp	Leu	Leu	Leu	Ile	Leu	Gly	Thr	Ser	Leu
				170					175					180
Glu	Val	Glu	Pro	Phe	Ala	Ser	Leu	Thr	Glu	Ala	Val	Arg	Ser	Ser
				185					190					195
Val	Pro	Arg	Leu	Leu	Ile	Asn	Arg	Asp	Leu	Val	Gly	Pro	Leu	Ala
				200					205					210
Trp	His	Pro	Arg	Ser	Arg	Asp	Val	Ala	Gln	Leu	Gly	Asp	Val	Val
				215					220					225
His	Gly	Val	Glu	Ser	Leu	Val	Glu	Leu	Leu	Gly	Trp	Thr	Glu	Glu
				230					235					240
Met	Arg	Asp	Leu	Val	Gln	Arg	Glu	Thr	Gly	Lys	Leu	Asp	Gly	Pro
				245					250					255

Asp Lys

<210> 37

<211> 138

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2661254CD1

<400> 37

Met	Ala	Thr	Lys	Arg	Leu	Phe	Gly	Ala	Thr	Arg	Thr	Trp	Ala	Gly
1				5					10					15
Trp	Gly	Ala	Trp	Glu	Leu	Leu	Asn	Pro	Ala	Thr	Ser	Gly	Arg	Leu
				20					25					30
Leu	Ala	Arg	Asp	Tyr	Ala	Lys	Lys	Pro	Val	Met	Lys	Gly	Ala	Lys
				35					40					45
Ser	Gly	Lys	Gly	Ala	Val	Thr	Ser	Glu	Ala	Leu	Lys	Asp	Pro	Asp

PF-0509 USN

50	55	60
Val Cys Thr Asp Pro Val Gln Leu Thr Thr Tyr Ala Met Gly Val		
65	70	75
Asn Ile Tyr Lys Glu Gly Gln Asp Val Pro Leu Lys Pro Asp Ala		
80	85	90
Glu Tyr Pro Glu Trp Leu Phe Glu Met Asn Leu Gly Pro Pro Lys		
95	100	105
Thr Leu Glu Glu Leu Asp Pro Glu Ser Arg Glu Tyr Trp Arg Arg		
110	115	120
Leu Arg Lys Gln Asn Ile Trp Arg His Asn Arg Leu Ser Lys Asn		
125	130	135
Lys Arg Leu		

<210> 38

<211> 999

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2674047CD1

<220>

<221> unsure

<222> 12, 57

<223> unknown or other

<400> 38

Met Gly Pro Ser Arg Leu Arg Leu Gly Phe Phe Xaa Lys Arg Gly		
1	5	10
Cys Ser Arg Ala Met Val Glu Ile Glu Leu Phe Arg Ala Ser Gly		
20	25	30
Asn Leu Val Ile Thr Arg Glu Ile Asp Val Ala Lys Asn Gln Ser		
35	40	45
Phe Trp Phe Ile Asn Lys Lys Ser Thr Thr Gln Xaa Ile Val Glu		
50	55	60
Glu Lys Val Ala Ala Leu Asn Ile Gln Val Gly Asn Leu Cys Gln		
65	70	75
Phe Leu Pro Gln Asp Lys Val Gly Glu Phe Ala Lys Leu Ser Lys		
80	85	90
Ile Glu Leu Leu Glu Ala Thr Glu Lys Ser Ile Gly Pro Pro Glu		
95	100	105
Met His Lys Tyr His Cys Glu Leu Lys Asn Leu Arg Glu Lys Glu		
110	115	120
Lys Gln Leu Glu Thr Ser Cys Lys Glu Lys Thr Glu Tyr Leu Gln		
125	130	135
Lys Met Val Gln Arg Asn Glu Arg Tyr Lys Gln Asp Val Glu Arg		
140	145	150
Phe Tyr Glu Arg Lys Arg His Leu Asp Leu Ile Glu Met Leu Glu		
155	160	165
Ala Lys Arg Pro Trp Val Glu Tyr Glu Asn Val Arg Gln Glu Tyr		
170	175	180
Glu Glu Val Lys Leu Val Arg Asp Arg Val Lys Glu Glu Val Arg		

	185		190		195
Lys Leu Lys Glu	Gly Gln Ile Pro Ile	Thr Cys Arg Ile Glu	Glu		
	200		205		210
Met Glu Asn Glu	Arg His Asn Leu Glu	Ala Arg Ile Lys Glu	Lys		
	215		220		225
Ala Thr Asp Ile	Lys Glu Ala Ser Gln	Lys Cys Lys Gln Lys	Gln		
	230		235		240
Asp Val Ile Glu	Arg Lys Asp Lys His	Ile Glu Glu Leu Gln	Gln		
	245		250		255
Ala Leu Ile Val	Lys Gln Asn Glu Glu	Leu Asp Arg Gln Arg	Arg		
	260		265		270
Ile Gly Asn Thr	Arg Lys Met Ile Glu	Asp Leu Gln Asn Glu	Leu		
	275		280		285
Lys Thr Thr Glu	Asn Cys Glu Asn Leu	Gln Pro Gln Ile Asp	Ala		
	290		295		300
Ile Thr Asn Asp	Leu Arg Arg Ile Gln	Asp Glu Lys Ala Leu	Cys		
	305		310		315
Glu Gly Glu Ile	Ile Asp Lys Arg Arg	Glu Arg Glu Thr Leu	Glu		
	320		325		330
Lys Glu Lys Lys	Ser Val Asp Asp His	Ile Val Arg Phe Asp	Asn		
	335		340		345
Leu Met Asn Gln	Lys Glu Asp Lys Leu	Arg Gln Arg Phe Arg	Asp		
	350		355		360
Thr Tyr Asp Ala	Val Leu Trp Leu Arg	Asn Asn Arg Asp Lys	Phe		
	365		370		375
Lys Gln Arg Val	Cys Glu Pro Ile Met	Leu Thr Ile Asn Met	Lys		
	380		385		390
Asp Asn Lys Asn	Ala Lys Tyr Ile Glu	Asn His Ile Pro Ser	Asn		
	395		400		405
Asp Leu Arg Ala	Phe Val Phe Glu Ser	Gln Glu Asp Met Glu	Val		
	410		415		420
Phe Leu Lys Glu	Val Arg Asp Asn Lys	Lys Leu Arg Val Asn	Ala		
	425		430		435
Val Ile Ala Pro	Lys Ser Ser Tyr Ala	Asp Lys Ala Pro Ser	Arg		
	440		445		450
Ser Leu Asn Glu	Leu Lys Gln Tyr Gly	Phe Phe Ser Tyr Leu	Arg		
	455		460		465
Glu Leu Phe Asp	Ala Pro Asp Pro Val	Met Ser Tyr Leu Cys	Cys		
	470		475		480
Gln Tyr His Ile	His Glu Val Pro Val	Gly Thr Glu Lys Thr	Arg		
	485		490		495
Glu Arg Ile Glu	Arg Val Ile Gln Glu	Thr Arg Leu Lys Gln	Ile		
	500		505		510
Tyr Thr Ala Glu	Glu Lys Tyr Val Val	Lys Thr Ser Phe Tyr	Ser		
	515		520		525
Asn Lys Val Ile	Ser Ser Asn Thr Ser	Leu Lys Val Ala Gln	Phe		
	530		535		540
Leu Thr Val Thr	Val Asp Leu Glu Gln	Arg Arg His Leu Glu	Glu		
	545		550		555
Gln Leu Lys Glu	Ile His Arg Lys Leu	Gln Ala Val Asp Ser	Gly		
	560		565		570
Leu Ile Ala Leu	Arg Glu Thr Ser Lys	His Leu Glu His Lys	Asp		
	575		580		585
Asn Glu Leu Arg	Gln Lys Lys Lys Glu	Leu Leu Glu Arg Lys	Thr		

	590		595		600
Lys Lys Arg Gln	Leu Glu Gln Lys Ile	Ser Ser Lys Leu Gly	Ser		
	605		610		615
Leu Lys Leu Met	Glu Gln Asp Thr Cys	Asn Leu Glu Glu Glu	Glu		
	620		625		630
Arg Lys Ala Ser	Thr Lys Ile Lys Glu	Ile Asn Val Gln Lys	Ala		
	635		640		645
Lys Leu Val Thr	Glu Leu Thr Asn Leu	Ile Lys Ile Cys Thr	Ser		
	650		655		660
Leu His Ile Gln	Lys Val Asp Leu Ile	Leu Gln Asn Thr Thr	Val		
	665		670		675
Ile Ser Glu Lys	Asn Lys Leu Glu Ser	Asp Tyr Met Ala Ala	Ser		
	680		685		690
Ser Gln Leu Arg	Leu Thr Glu Gln His	Phe Ile Glu Leu Asp	Glu		
	695		700		705
Asn Arg Gln Arg	Leu Leu Gln Lys Cys	Lys Glu Leu Met Lys	Arg		
	710		715		720
Ala Arg Gln Val	Cys Asn Leu Gly Ala	Glu Gln Thr Leu Pro	Gln		
	725		730		735
Glu Tyr Gln Thr	Gln Val Pro Thr Ile	Pro Asn Gly His Asn	Ser		
	740		745		750
Ser Leu Pro Met	Val Phe Gln Asp Leu	Pro Asn Thr Leu Asp	Glu		
	755		760		765
Ile Asp Ala Leu	Leu Thr Glu Glu Arg	Ser Arg Ala Ser Cys	Phe		
	770		775		780
Thr Gly Leu Asn	Pro Thr Ile Val Gln	Glu Tyr Thr Lys Arg	Glu		
	785		790		795
Glu Glu Ile Glu	Gln Leu Thr Glu Glu	Leu Lys Gly Lys Lys	Val		
	800		805		810
Glu Leu Asp Gln	Tyr Arg Glu Asn Ile	Ser Gln Val Lys Glu	Arg		
	815		820		825
Trp Leu Asn Pro	Leu Lys Glu Leu Val	Glu Lys Ile Asn Glu	Lys		
	830		835		840
Phe Ser Asn Phe	Phe Ser Ser Met Gln	Cys Ala Gly Glu Val	Asp		
	845		850		855
Leu His Thr Glu	Asn Glu Glu Asp Tyr	Asp Lys Tyr Gly Ile	Arg		
	860		865		870
Ile Arg Val Lys	Phe Arg Ser Ser Thr	Gln Leu His Glu Leu	Thr		
	875		880		885
Pro His His Gln	Ser Gly Gly Glu Arg	Ser Val Ser Thr Met	Leu		
	890		895		900
Tyr Leu Met Ala	Leu Gln Glu Leu Asn	Arg Cys Pro Phe Arg	Val		
	905		910		915
Val Asp Glu Ile	Asn Gln Gly Met Asp	Pro Ile Asn Glu Arg	Arg		
	920		925		930
Val Phe Glu Met	Val Val Asn Thr Ala	Cys Lys Glu Asn Thr	Ser		
	935		940		945
Gln Tyr Phe Phe	Ile Thr Pro Lys Leu	Leu Gln Asn Leu Pro	Tyr		
	950		955		960
Ser Glu Lys Met	Thr Val Leu Phe Val	Tyr Asn Gly Pro His	Met		
	965		970		975
Leu Glu Pro Asn	Thr Trp Asn Leu Lys	Ala Phe Gln Arg Arg	Arg		
	980		985		990
Arg Arg Ile Thr	Phe Thr Gln Pro Ser				

995

<210> 39

<211> 377

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2762174CD1

<400> 39

Met	Ala	Glu	Leu	Glu	Ser	His	Pro	Cys	Asp	Ile	Cys	Gly	Pro	Ile	1	5	10	15
Leu	Lys	Asp	Thr	Leu	His	Leu	Ala	Lys	Tyr	His	Gly	Gly	Lys	Ala	20	25	30	35
Arg	Gln	Lys	Pro	Tyr	Leu	Cys	Gly	Ala	Cys	Gly	Lys	Gln	Phe	Trp	40	45	50	55
Phe	Ser	Thr	Asp	Phe	Asp	Gln	His	Gln	Asn	Gln	Pro	Asn	Gly	Gly	60	65	70	75
Lys	Leu	Phe	Pro	Arg	Lys	Glu	Gly	Arg	Asp	Ser	Val	Lys	Ser	Cys	80	85	90	95
Arg	Val	His	Val	Pro	Glu	Lys	Thr	Leu	Thr	Cys	Gly	Lys	Gly	Arg	100	105	110	115
Arg	Asp	Phe	Ser	Ala	Thr	Ser	Gly	Leu	Leu	Gln	His	Gln	Ala	Ser	120	125	130	135
Leu	Ser	Ser	Met	Lys	Pro	His	Lys	Ser	Thr	Lys	Leu	Val	Ser	Gly	140	145	150	155
Phe	Leu	Met	Gly	Gln	Arg	Tyr	His	Arg	Cys	Gly	Glu	Cys	Gly	Lys	160	165	170	175
Ala	Phe	Thr	Arg	Lys	Asp	Thr	Leu	Ala	Arg	His	Gln	Arg	Ile	His	180	185	190	195
Thr	Gly	Glu	Arg	Pro	Tyr	Glu	Cys	Asn	Glu	Cys	Gly	Lys	Phe	Phe	200	205	210	215
Ser	Gln	Ser	Tyr	Asp	Leu	Phe	Lys	His	Gln	Thr	Val	His	Thr	Gly	220	225	230	235
Glu	Arg	Pro	Tyr	Glu	Cys	Ser	Glu	Cys	Gly	Lys	Phe	Phe	Arg	Gln	240	245	250	255
Ile	Ser	Gly	Leu	Ile	Glu	His	Arg	Arg	Val	His	Thr	Gly	Glu	Arg	260	265	270	275
Leu	Tyr	Gln	Cys	Gly	Lys	Cys	Gly	Lys	Phe	Phe	Ser	Ser	Lys	Ser	280	285	290	295
Asn	Leu	Ile	Arg	His	Gln	Glu	Val	His	Thr	Gly	Ala	Arg	Pro	Tyr	300	305	310	315
Val	Cys	Ser	Glu	Cys	Gly	Lys	Glu	Phe	Ser	Arg	Lys	His	Thr	Leu				
Val	Leu	His	Gln	Arg	Thr	His	Thr	Gly	Glu	Arg	Pro	Tyr	Glu	Cys				
Ser	Glu	Cys	Gly	Lys	Ala	Phe	Ser	Gln	Ser	Ser	His	Leu	Asn	Val				
His	Trp	Arg	Ile	His	Ser	Ser	Asp	Tyr	Glu	Cys	Ser	Arg	Cys	Gly				
Lys	Ala	Phe	Ser	Cys	Ile	Ser	Lys	Leu	Ile	Gln	His	Gln	Lys	Val				

PF-0509 USN

His	Ser	Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Ser	Lys	Cys	Gly	Lys	Ala
				320					325					330
Phe	Thr	Gln	Arg	Pro	Asn	Leu	Ile	Arg	His	Trp	Lys	Val	His	Thr
				335					340					345
Gly	Glu	Arg	Pro	Tyr	Val	Cys	Ser	Glu	Cys	Gly	Arg	Glu	Phe	Ile
				350					355					360
Arg	Lys	Gln	Thr	Leu	Val	Leu	His	Gln	Arg	Val	His	Ala	Gly	Glu
				365					370					375
Lys	Leu													

<210> 40

<211> 324

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2765991CD1

<400> 40

Met	Asp	Phe	Pro	Lys	His	Asn	Gln	Ile	Ile	Thr	Glu	Glu	Thr	Gly
1				5					10					15
Ser	Ala	Val	Glu	Pro	Ser	Asp	Glu	Ile	Lys	Arg	Ala	Ser	Gly	Asp
				20					25					30
Val	Gln	Thr	Met	Lys	Ile	Ser	Ser	Val	Pro	Asn	Ser	Leu	Ser	Lys
				35					40					45
Arg	Asn	Val	Ser	Leu	Thr	Arg	Ser	His	Ser	Val	Gly	Gly	Pro	Leu
				50					55					60
Gln	Asn	Ile	Asp	Phe	Thr	Gln	Arg	Pro	Phe	His	Gly	Ile	Ser	Thr
				65					70					75
Val	Ser	Leu	Pro	Gly	Ser	Leu	Gln	Glu	Val	Val	Asp	Pro	Leu	Gly
				80					85					90
Lys	Arg	Pro	Asn	Pro	Pro	Pro	Val	Ser	Val	Pro	Tyr	Leu	Ser	Pro
				95					100					105
Leu	Val	Leu	Arg	Lys	Glu	Leu	Glu	Ser	Leu	Leu	Glu	Asn	Glu	Gly
				110					115					120
Asp	Gln	Val	Ile	His	Thr	Ser	Ser	Phe	Ile	Asn	Gln	His	Pro	Ile
				125					130					135
Ile	Phe	Trp	Asn	Leu	Val	Trp	Tyr	Phe	Arg	Arg	Leu	Asp	Leu	Pro
				140					145					150
Ser	Asn	Leu	Pro	Gly	Leu	Ile	Leu	Thr	Ser	Glu	His	Cys	Asn	Glu
				155					160					165
Gly	Val	Gln	Leu	Pro	Leu	Ser	Ser	Leu	Ser	Gln	Asp	Ser	Lys	Leu
				170					175					180
Val	Tyr	Ile	Arg	Leu	Leu	Trp	Asp	Asn	Ile	Asn	Leu	His	Gln	Glu
				185					190					195
Pro	Arg	Glu	Pro	Leu	Tyr	Val	Ser	Trp	Arg	Asn	Phe	Asn	Ser	Glu
				200					205					210
Lys	Lys	Ser	Ser	Leu	Leu	Ser	Glu	Glu	Gln	Gln	Glu	Thr	Ser	Thr
				215					220					225
Leu	Val	Glu	Thr	Ile	Arg	Gln	Ser	Ile	Gln	His	Asn	Asn	Val	Leu
				230					235					240
Lys	Pro	Ile	Asn	Leu	Leu	Ser	Gln	Gln	Met	Lys	Pro	Gly	Met	Lys

PF-0509 USN

	245		250		255
Arg Gln Arg Ser	Leu Tyr Arg Glu Ile	Leu Phe Leu Ser Leu	Val		
	260		265		270
Ser Leu Gly Arg	Glu Asn Ile Asp Ile	Glu Ala Phe Asp Asn	Glu		
	275		280		285
Tyr Gly Ile Ala	Tyr Asn Ser Leu Ser	Ser Glu Ile Leu Glu	Arg		
	290		295		300
Leu Gln Lys Ile	Asp Ala Pro Pro Ser	Ala Ser Val Glu Trp	Cys		
	305		310		315
Arg Lys Cys Phe	Gly Ala Pro Leu Ile				
	320				

<210> 41

<211> 270

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2775157CD1

<400> 41

Met Pro Cys Pro Met	Leu Leu Pro Ser	Gly Lys Val Ile Asp	Gln		
1	5	10	15		
Ser Thr Leu Glu Lys	Cys Asn Arg Ser	Glu Ala Thr Trp Gly	Arg		
	20	25	30		
Val Pro Ser Asp Pro	Phe Thr Gly Val	Ala Phe Thr Pro His	Ser		
	35	40	45		
Gln Pro Leu Pro His	Pro Ser Leu Lys	Ala Arg Ile Asp His	Phe		
	50	55	60		
Leu Leu Gln His Ser	Ile Pro Gly Cys	His Leu Leu Gly Arg	Ala		
	65	70	75		
Gln Thr Ala Leu Ala	Val Ile Pro Ser	Ser Ile Val Leu Pro	Ser		
	80	85	90		
Gln Lys Arg Lys Ile	Glu Gln Ala Glu	His Val Pro Asp Ser	Asn		
	95	100	105		
Phe Gly Val Asn Ala	Ser Cys Phe Ser	Ala Thr Ser Pro Leu	Val		
	110	115	120		
Leu Pro Thr Thr Ser	Glu His Thr Ala	Lys Lys Met Lys Ala	Thr		
	125	130	135		
Asn Glu Pro Ser Leu	Thr His Met Asp	Cys Ser Thr Gly Pro	Leu		
	140	145	150		
Ser His Glu Gln Lys	Leu Ser Gln Ser	Leu Glu Ile Ala Leu	Ala		
	155	160	165		
Ser Thr Leu Gly Ser	Met Pro Ser Phe	Thr Ala Arg Leu Thr	Arg		
	170	175	180		
Gly Gln Leu Gln His	Leu Gly Thr Arg	Gly Ser Asn Thr Ser	Trp		
	185	190	195		
Arg Pro Gly Thr Gly	Ser Glu Gln Pro	Gly Ser Ile Leu Gly	Pro		
	200	205	210		
Glu Cys Ala Ser Cys	Lys Arg Val Phe	Ser Pro Tyr Phe Lys	Lys		
	215	220	225		
Glu Pro Val Tyr Gln	Leu Pro Cys Gly	His Leu Leu Cys Arg	Pro		
	230	235	240		

PF-0509 USN

Cys	Leu	Gly	Glu	Lys	Gln	Arg	Ser	Leu	Pro	Met	Thr	Cys	Thr	Ala
				245					250					255
Cys	Gln	Arg	Pro	Val	Ala	Ser	Gln	Asp	Val	Leu	Arg	Val	His	Phe
				260					265					270

<210> 42
<211> 252
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2918375CD1

<400> 42

Met	Leu	Arg	Lys	Gly	Ile	Cys	Glu	Tyr	His	Glu	Lys	Asn	Tyr	Ala
1				5					10					15
Ala	Ala	Leu	Glu	Thr	Phe	Thr	Glu	Gly	Gln	Lys	Leu	Asp	Ser	Ala
				20					25					30
Asp	Ala	Asn	Phe	Ser	Val	Trp	Ile	Lys	Arg	Cys	Gln	Glu	Ala	Gln
				35					40					45
Asn	Gly	Ser	Glu	Ser	Glu	Val	Trp	Thr	His	Gln	Ser	Lys	Ile	Lys
				50					55					60
Tyr	Asp	Trp	Tyr	Gln	Thr	Glu	Ser	Gln	Val	Val	Ile	Thr	Leu	Met
				65					70					75
Ile	Lys	Asn	Val	Gln	Lys	Asn	Asp	Val	Asn	Val	Glu	Phe	Ser	Glu
				80					85					90
Lys	Glu	Leu	Ser	Ala	Leu	Val	Lys	Leu	Pro	Ser	Gly	Glu	Asp	Tyr
				95					100					105
Asn	Leu	Lys	Leu	Glu	Leu	Leu	His	Pro	Ile	Ile	Pro	Glu	Gln	Ser
				110					115					120
Thr	Phe	Lys	Val	Leu	Ser	Thr	Lys	Ile	Glu	Ile	Lys	Leu	Lys	Lys
				125					130					135
Pro	Glu	Ala	Val	Arg	Trp	Glu	Lys	Leu	Glu	Gly	Gln	Gly	Asp	Val
				140					145					150
Pro	Thr	Pro	Lys	Gln	Phe	Val	Ala	Asp	Val	Lys	Asn	Leu	Tyr	Pro
				155					160					165
Ser	Ser	Ser	Pro	Tyr	Thr	Arg	Asn	Trp	Asp	Lys	Leu	Val	Gly	Glu
				170					175					180
Ile	Lys	Glu	Glu	Glu	Lys	Asn	Glu	Lys	Leu	Glu	Gly	Asp	Ala	Ala
				185					190					195
Leu	Asn	Arg	Leu	Phe	Gln	Gln	Ile	Tyr	Ser	Asp	Gly	Ser	Asp	Glu
				200					205					210
Val	Lys	Arg	Ala	Met	Asn	Lys	Ser	Phe	Met	Glu	Ser	Gly	Gly	Thr
				215					220					225
Val	Leu	Ser	Thr	Asn	Trp	Ser	Asp	Val	Gly	Lys	Arg	Lys	Val	Glu
				230					235					240
Ile	Asn	Pro	Pro	Asp	Asp	Met	Glu	Trp	Lys	Lys	Tyr			
				245					250					

<210> 43
<211> 228
<212> PRT

PF-0509 USN

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3149729CD1

<400> 43

Met	Thr	Met	Gly	Asp	Lys	Lys	Ser	Pro	Thr	Arg	Pro	Lys	Arg	Gln
1				5					10					15
Ala	Lys	Pro	Ala	Ala	Asp	Glu	Gly	Phe	Trp	Asp	Cys	Ser	Val	Cys
				20					25					30
Thr	Phe	Arg	Asn	Ser	Ala	Glu	Ala	Phe	Lys	Cys	Ser	Ile	Cys	Asp
				35					40					45
Val	Arg	Lys	Gly	Thr	Ser	Thr	Arg	Lys	Pro	Arg	Ile	Asn	Ser	Gln
				50					55					60
Leu	Val	Ala	Gln	Gln	Val	Ala	Gln	Gln	Tyr	Ala	Thr	Pro	Pro	Pro
				65					70					75
Pro	Lys	Lys	Glu	Lys	Lys	Glu	Lys	Val	Glu	Lys	Gln	Asp	Lys	Glu
				80					85					90
Lys	Pro	Glu	Lys	Asp	Lys	Glu	Ile	Ser	Pro	Ser	Val	Thr	Lys	Lys
				95					100					105
Asn	Thr	Asn	Lys	Lys	Thr	Lys	Pro	Lys	Ser	Asp	Ile	Leu	Lys	Asp
				110					115					120
Pro	Pro	Ser	Glu	Ala	Asn	Ser	Ile	Gln	Ser	Ala	Asn	Ala	Thr	Thr
				125					130					135
Lys	Thr	Ser	Glu	Thr	Asn	His	Thr	Ser	Arg	Pro	Arg	Leu	Lys	Asn
				140					145					150
Val	Asp	Arg	Ser	Thr	Ala	Gln	Gln	Leu	Ala	Val	Thr	Val	Gly	Asn
				155					160					165
Val	Thr	Val	Ile	Ile	Thr	Asp	Phe	Lys	Glu	Lys	Thr	Arg	Ser	Ser
				170					175					180
Ser	Thr	Ser	Ser	Ser	Thr	Val	Thr	Ser	Ser	Ala	Gly	Ser	Glu	Gln
				185					190					195
Gln	Asn	Gln	Ser	Ser	Ser	Gly	Ser	Glu	Ser	Thr	Asp	Lys	Gly	Ser
				200					205					210
Ser	Arg	Ser	Ser	Thr	Pro	Lys	Gly	Asp	Met	Ser	Ala	Val	Asn	Asp
				215					220					225
Glu	Ser	Phe												

<210> 44

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3705895CD1

<400> 44

Met	Ala	Ala	Ala	Ala	Ala	Ala	Gly	Ser	Gly	Thr	Pro	Arg	Glu	Glu
1						5			10					15
Glu	Gly	Pro	Ala	Gly	Glu	Ala	Ala	Ala	Ser	Gln	Pro	Gln	Ala	Pro
				20					25					30

PF-0509 USN

Thr	Ser	Val	Pro	Gly	Ala	Arg	Leu	Ser	Arg	Leu	Pro	Leu	Ala	Arg	
				35					40					45	
Val	Lys	Ala	Leu	Val	Lys	Ala	Asp	Pro	Asp	Val	Thr	Leu	Ala	Gly	
				50					55					60	
Gln	Glu	Ala	Ile	Phe	Ile	Leu	Ala	Arg	Ala	Ala	Glu	Leu	Phe	Val	
				65					70					75	
Glu	Thr	Ile	Ala	Lys	Asp	Ala	Tyr	Cys	Cys	Ala	Gln	Gln	Gly	Lys	
				80					85					90	
Arg	Lys	Thr	Leu	Gln	Arg	Arg	Asp	Leu	Asp	Asn	Ala	Ile	Glu	Ala	
				95					100					105	
Val	Asp	Glu	Phe	Ala	Phe	Leu	Glu	Gly	Thr	Leu	Asp				
				110					115						

<210> 45

<211> 252

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 003256CD1

<400> 45

Met	Thr	Pro	Lys	Leu	Gly	Arg	Gly	Val	Leu	Glu	Gly	Asp	Asp	Val	
1				5					10					15	
Leu	Phe	Tyr	Asp	Glu	Ser	Pro	Pro	Pro	Arg	Pro	Lys	Leu	Ser	Ala	
				20					25					30	
Leu	Ala	Glu	Ala	Lys	Lys	Leu	Ala	Ala	Ile	Thr	Lys	Leu	Arg	Ala	
				35					40					45	
Lys	Gly	Gln	Val	Leu	Thr	Lys	Thr	Asn	Pro	Asn	Ser	Ile	Lys	Lys	
				50					55					60	
Lys	Gln	Lys	Asp	Pro	Gln	Asp	Ile	Leu	Glu	Val	Lys	Glu	Arg	Val	
				65					70					75	
Glu	Lys	Asn	Thr	Met	Phe	Ser	Ser	Gln	Ala	Glu	Asp	Glu	Leu	Glu	
				80					85					90	
Pro	Ala	Arg	Lys	Lys	Arg	Arg	Glu	Gln	Leu	Ala	Tyr	Leu	Glu	Ser	
				95					100					105	
Glu	Glu	Phe	Gln	Lys	Ile	Leu	Lys	Ala	Lys	Ser	Lys	His	Thr	Gly	
				110					115					120	
Ile	Leu	Lys	Glu	Ala	Glu	Ala	Glu	Met	Gln	Glu	Arg	Tyr	Phe	Glu	
				125					130					135	
Pro	Leu	Val	Lys	Lys	Glu	Gln	Met	Glu	Glu	Lys	Met	Arg	Asn	Ile	
				140					145					150	
Arg	Glu	Val	Lys	Cys	Arg	Val	Val	Thr	Cys	Lys	Thr	Cys	Ala	Tyr	
				155					160					165	
Thr	His	Phe	Lys	Leu	Leu	Glu	Thr	Cys	Val	Ser	Glu	Gln	His	Glu	
				170					175					180	
Tyr	His	Trp	His	Asp	Gly	Val	Lys	Arg	Phe	Phe	Lys	Cys	Pro	Cys	
				185					190					195	
Gly	Asn	Arg	Ser	Ile	Ser	Leu	Asp	Arg	Leu	Pro	Asn	Lys	His	Cys	
				200					205					210	
Ser	Asn	Cys	Gly	Leu	Tyr	Lys	Trp	Glu	Arg	Asp	Gly	Met	Leu	Lys	
				215					220					225	
Glu	Lys	Thr	Gly	Pro	Lys	Ile	Gly	Gly	Glu	Thr	Leu	Leu	Pro	Arg	

PF-0509 USN

	230		235		240
Gly Glu Glu His	Ala Lys Phe Leu Asn	Ser Leu Lys			
	245		250		

<210> 46

<211> 530

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 156986CD1

<400> 46

Met	Ala	Lys	Gly	Glu	Gly	Ala	Glu	Ser	Gly	Ser	Ala	Ala	Gly	Leu	
1				5					10					15	
Leu	Pro	Thr	Ser	Ile	Leu	Gln	Ser	Thr	Glu	Arg	Pro	Ala	Gln	Val	
				20					25					30	
Lys	Lys	Glu	Pro	Lys	Lys	Lys	Lys	Gln	Gln	Leu	Ser	Val	Cys	Asn	
				35					40					45	
Lys	Leu	Cys	Tyr	Ala	Leu	Gly	Gly	Ala	Pro	Tyr	Gln	Val	Thr	Gly	
				50					55					60	
Cys	Ala	Leu	Gly	Phe	Phe	Leu	Gln	Ile	Tyr	Leu	Leu	Asp	Val	Ala	
				65					70					75	
Gln	Val	Gly	Pro	Phe	Ser	Ala	Ser	Ile	Ile	Leu	Phe	Val	Gly	Arg	
				80					85					90	
Ala	Trp	Asp	Ala	Ile	Thr	Asp	Pro	Leu	Val	Gly	Leu	Cys	Ile	Ser	
				95					100					105	
Lys	Ser	Pro	Trp	Thr	Cys	Leu	Gly	Arg	Leu	Met	Pro	Trp	Ile	Ile	
				110					115					120	
Phe	Ser	Thr	Pro	Leu	Ala	Val	Ile	Ala	Tyr	Phe	Leu	Ile	Trp	Phe	
				125					130					135	
Val	Pro	Asp	Phe	Pro	His	Gly	Gln	Thr	Tyr	Trp	Tyr	Leu	Leu	Phe	
				140					145					150	
Tyr	Cys	Leu	Phe	Glu	Thr	Met	Val	Thr	Cys	Phe	His	Val	Pro	Tyr	
				155					160					165	
Ser	Ala	Leu	Thr	Met	Phe	Ile	Ser	Thr	Glu	Gln	Thr	Glu	Arg	Asp	
				170					175					180	
Ser	Ala	Thr	Ala	Tyr	Arg	Met	Thr	Val	Glu	Val	Leu	Gly	Thr	Val	
				185					190					195	
Leu	Gly	Thr	Ala	Ile	Gln	Gly	Gln	Ile	Val	Gly	Gln	Ala	Asp	Thr	
				200					205					210	
Pro	Cys	Phe	Gln	Asp	Leu	Asn	Ser	Ser	Thr	Val	Ala	Ser	Gln	Ser	
				215					220					225	
Ala	Asn	His	Thr	His	Gly	Thr	Thr	Ser	His	Arg	Glu	Thr	Gln	Lys	
				230					235					240	
Ala	Tyr	Leu	Leu	Ala	Ala	Gly	Val	Ile	Val	Cys	Ile	Tyr	Ile	Ile	
				245					250					255	
Cys	Ala	Val	Ile	Leu	Ile	Leu	Gly	Val	Arg	Glu	Gln	Arg	Glu	Pro	
				260					265					270	
Tyr	Glu	Ala	Gln	Gln	Ser	Glu	Pro	Ile	Ala	Tyr	Phe	Arg	Gly	Leu	
				275					280					285	
Arg	Leu	Val	Met	Ser	His	Gly	Pro	Tyr	Ile	Lys	Leu	Ile	Thr	Gly	
				290					295					300	

PF-0509 USN

Phe	Leu	Phe	Thr	Ser	Leu	Ala	Phe	Met	Leu	Val	Glu	Gly	Asn	Phe	
				305					310					315	
Val	Leu	Phe	Cys	Thr	Tyr	Thr	Leu	Gly	Phe	Arg	Asn	Glu	Phe	Gln	
				320					325					330	
Asn	Leu	Leu	Leu	Ala	Ile	Met	Leu	Ser	Ala	Thr	Leu	Thr	Ile	Pro	
				335					340					345	
Ile	Trp	Gln	Trp	Phe	Leu	Thr	Arg	Phe	Gly	Lys	Lys	Thr	Ala	Val	
				350					355					360	
Tyr	Val	Gly	Ile	Ser	Ser	Ala	Val	Pro	Phe	Leu	Ile	Leu	Val	Ala	
				365					370					375	
Leu	Met	Glu	Ser	Asn	Leu	Ile	Ile	Thr	Tyr	Ala	Val	Ala	Val	Ala	
				380					385					390	
Ala	Gly	Ile	Ser	Val	Ala	Ala	Ala	Phe	Leu	Leu	Pro	Trp	Ser	Met	
				395					400					405	
Leu	Pro	Asp	Val	Ile	Asp	Asp	Phe	His	Leu	Lys	Gln	Pro	His	Phe	
				410					415					420	
His	Gly	Thr	Glu	Pro	Ile	Phe	Phe	Ser	Phe	Tyr	Val	Phe	Phe	Thr	
				425					430					435	
Lys	Phe	Ala	Ser	Gly	Val	Ser	Leu	Gly	Ile	Ser	Thr	Leu	Ser	Leu	
				440					445					450	
Asp	Phe	Ala	Gly	Tyr	Gln	Thr	Arg	Gly	Cys	Ser	Gln	Pro	Glu	Arg	
				455					460					465	
Val	Lys	Phe	Thr	Leu	Asn	Met	Leu	Val	Thr	Met	Ala	Pro	Ile	Val	
				470					475					480	
Leu	Ile	Leu	Leu	Gly	Leu	Leu	Leu	Phe	Lys	Met	Tyr	Pro	Ile	Asp	
				485					490					495	
Glu	Glu	Arg	Arg	Arg	Gln	Asn	Lys	Lys	Ala	Leu	Gln	Ala	Leu	Arg	
				500					505					510	
Asp	Glu	Ala	Ser	Ser	Ser	Gly	Cys	Ser	Glu	Thr	Asp	Ser	Thr	Glu	
				515					520					525	
Leu	Ala	Ser	Ile	Leu											
				530											

<210> 47

<211> 355

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 319415CD1

<400> 47

Met	Gly	Cys	Val	Phe	Gln	Ser	Thr	Glu	Asp	Lys	Cys	Ile	Phe	Lys	
1				5					10					15	
Ile	Asp	Trp	Thr	Leu	Ser	Pro	Gly	Glu	His	Ala	Lys	Asp	Glu	Tyr	
				20					25					30	
Val	Leu	Tyr	Tyr	Tyr	Ser	Asn	Leu	Ser	Val	Pro	Ile	Gly	Arg	Phe	
				35					40					45	
Gln	Asn	Arg	Val	His	Leu	Met	Gly	Asp	Ile	Leu	Cys	Asn	Asp	Gly	
				50					55					60	
Ser	Leu	Leu	Leu	Gln	Asp	Val	Gln	Glu	Ala	Asp	Gln	Gly	Thr	Tyr	
				65					70					75	
Ile	Cys	Glu	Ile	Arg	Leu	Lys	Gly	Glu	Ser	Gln	Val	Phe	Lys	Lys	

PF-0509 USN

	80		85		90
Ala Val Val Leu	His Val Leu Pro Glu	Glu Pro Lys Glu Leu	Met		
	95		100		105
Val His Val Gly	Gly Leu Ile Gln Met	Gly Cys Val Phe Gln	Ser		
	110		115		120
Thr Glu Val Lys	His Val Thr Lys Val	Glu Trp Ile Phe Ser	Gly		
	125		130		135
Arg Arg Ala Lys	Glu Glu Ile Val Phe	Arg Tyr Tyr His Lys	Leu		
	140		145		150
Arg Met Ser Val	Glu Tyr Ser Gln Ser	Trp Gly His Phe Gln	Asn		
	155		160		165
Arg Val Asn Leu	Val Gly Asp Ile Phe	Arg Asn Asp Gly Ser	Ile		
	170		175		180
Met Leu Gln Gly	Val Arg Glu Ser Asp	Gly Gly Asn Tyr Thr	Cys		
	185		190		195
Ser Ile His Leu	Gly Asn Leu Val Phe	Lys Lys Thr Ile Val	Leu		
	200		205		210
His Val Ser Pro	Glu Glu Pro Arg Thr	Leu Val Thr Pro Ala	Ala		
	215		220		225
Leu Arg Pro Leu	Val Leu Gly Gly Asn	Gln Leu Val Ile Ile	Val		
	230		235		240
Gly Ile Val Cys	Ala Thr Ile Leu Leu	Leu Pro Val Leu Ile	Leu		
	245		250		255
Ile Val Lys Lys	Thr Cys Gly Asn Lys	Ser Ser Val Asn Ser	Thr		
	260		265		270
Val Leu Val Lys	Asn Thr Lys Lys Thr	Asn Pro Glu Ile Lys	Glu		
	275		280		285
Lys Pro Cys His	Phe Glu Arg Cys Glu	Gly Glu Lys His Ile	Tyr		
	290		295		300
Ser Pro Ile Ile	Val Arg Glu Val Ile	Glu Glu Glu Glu Pro	Ser		
	305		310		315
Glu Lys Ser Glu	Ala Thr Tyr Met Thr	Met His Pro Val Trp	Pro		
	320		325		330
Ser Leu Arg Ser	Asp Arg Asn Asn Ser	Leu Glu Lys Lys Ser	Gly		
	335		340		345
Gly Gly Met Pro	Lys Thr Gln Gln Ala	Phe			
	350		355		

<210> 48

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 635581CD1

<400> 48

Met Val Gly Gln Thr	Glu Asp Asp Thr	Ala Gln Gln Leu Val	Pro
1	5	10	15
Thr Cys Gly Met Lys	Gly Val Gly Glu	Arg Ile Val Glu Tyr	Val
	20	25	30
Ser Asn Ile Pro Ala	Leu Gln Arg Ala	Thr Pro Lys Gly Leu	Ala
	35	40	45

PF-0509 USN

Ser	Val	Ser	Pro	Asp	Leu	Glu	His	Arg	Gln	Glu	Trp	Thr	Tyr	Ser
				50					55					60
Lys	Ser	Pro	Leu	Met	Gly	Lys	Gly	Thr	Arg	Leu	Glu	Ala	Ser	Glu
				65					70					75
Asn	Lys	Arg	Ala	Gly	Trp	Leu	Ala	Ala		Pro	Glu	Asn	Leu	Lys
				80					85					90
Tyr	His	Arg	Gln	Ile	Ala	Gln	Gly	Ala	Lys	Asp	Tyr	Glu	Ile	Leu
				95					100					105
Lys	Lys	Glu	Thr	Asn	Lys	Phe	Ile	Leu	Arg	Ile	Tyr	Thr	His	Trp
				110					115					120
Ser	Arg	Arg	Ser	Ile	Leu	Arg	Lys	Gly	Ser	Lys	Gly	Met	Gln	Asn
				125					130					135

Leu

<210> 49

<211> 230

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 921803CD1

<400> 49

Met	Lys	Leu	Ile	Val	Gly	Ile	Gly	Gly	Met	Thr	Asn	Gly	Gly	Lys
1				5					10					15
Thr	Thr	Leu	Thr	Asn	Ser	Leu	Leu	Arg	Ala	Leu	Pro	Asn	Cys	Cys
				20					25					30
Val	Ile	His	Gln	Asp	Asp	Phe	Phe	Lys	Pro	Gln	Asp	Gln	Ile	Ala
				35					40					45
Val	Gly	Glu	Asp	Gly	Phe	Lys	Gln	Trp	Asp	Val	Leu	Glu	Ser	Leu
				50					55					60
Asp	Met	Glu	Ala	Met	Leu	Asp	Thr	Val	Gln	Ala	Trp	Leu	Ser	Ser
				65					70					75
Pro	Gln	Lys	Phe	Ala	Arg	Ala	His	Gly	Val	Ser	Val	Gln	Pro	Glu
				80					85					90
Ala	Ser	Asp	Thr	His	Ile	Leu	Leu	Leu	Glu	Gly	Phe	Leu	Leu	Tyr
				95					100					105
Ser	Tyr	Lys	Pro	Leu	Val	Asp	Leu	Tyr	Ser	Arg	Arg	Tyr	Phe	Leu
				110					115					120
Thr	Val	Pro	Tyr	Glu	Glu	Cys	Lys	Trp	Arg	Arg	Ser	Thr	Arg	Asn
				125					130					135
Tyr	Thr	Val	Pro	Asp	Pro	Pro	Gly	Leu	Phe	Asp	Gly	His	Val	Trp
				140					145					150
Pro	Met	Tyr	Gln	Lys	Tyr	Arg	Gln	Glu	Met	Glu	Ala	Asn	Gly	Val
				155					160					165
Glu	Val	Val	Tyr	Leu	Asp	Gly	Met	Lys	Ser	Arg	Glu	Glu	Leu	Phe
				170					175					180
Arg	Glu	Val	Leu	Glu	Asp	Ile	Gln	Asn	Ser	Leu	Leu	Asn	Arg	Ser
				185					190					195
Gln	Glu	Ser	Ala	Pro	Ser	Pro	Ala	Arg	Pro	Ala	Arg	Thr	Gln	Gly
				200					205					210
Pro	Gly	Arg	Gly	Cys	Gly	His	Arg	Thr	Ala	Arg	Pro	Ala	Ala	Ser

PF-0509 USN

	215	220	225
Gln Gln Asp Ser Met			
230			

<210> 50
<211> 70
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1250492CD1

<400> 50
Met Thr Ile Lys Leu Arg Pro Leu Pro Phe Phe Lys Pro Lys Ser
1 5 10 15
Gly Asn Gln Glu Gln Gln Leu His Gly Leu Leu Ala Pro Asp Gln
20 25 30
Pro Gly Ser Gly Asp Ile Val Ser Leu Phe Gly Asn Cys Arg Pro
35 40 45
Gln Gly Val Gly Leu Ser His Phe Leu Val Leu Pro Thr Phe Pro
50 55 60
Ile Arg Ala Ser Ser Arg Gly Gln Val Cys
65 70

<210> 51
<211> 169
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1427838CD1

<400> 51
Met Leu Ala Phe Ser Glu Met Pro Lys Pro Pro Asp Tyr Ser Glu
1 5 10 15
Leu Ser Asp Ser Leu Thr Leu Ala Val Gly Thr Gly Arg Phe Ser
20 25 30
Gly Pro Leu His Arg Ala Trp Arg Met Met Asn Phe Arg Gln Arg
35 40 45
Met Gly Trp Ile Gly Val Gly Leu Tyr Leu Leu Ala Ser Ala Ala
50 55 60
Ala Phe Tyr Tyr Val Phe Glu Ile Ser Glu Thr Tyr Asn Arg Leu
65 70 75
Ala Leu Glu His Ile Gln Gln His Pro Glu Glu Pro Leu Glu Gly
80 85 90
Thr Thr Trp Thr His Ser Leu Lys Ala Gln Leu Leu Ser Leu Pro
95 100 105
Phe Trp Val Trp Thr Val Ile Phe Leu Val Pro Tyr Leu Gln Met
110 115 120
Phe Leu Phe Leu Tyr Ser Cys Thr Arg Ala Asp Pro Lys Thr Val
125 130 135
Gly Tyr Cys Ile Ile Pro Ile Cys Leu Ala Val Ile Cys Asn Arg

	140		145		150
His Gln Ala Phe	Val Lys Ala Ser Asn	Gln Ile Ser Arg Leu	Gln		
	155		160		165
Leu Ile Asp Thr					

```
<220>  
<221> misc_feature  
<223> Incyte ID No: 1448258CD1
```

<400> 52														
Met	Gly	Pro	Thr	Lys	Phe	Thr	Gln	Thr	Asn	Ile	Gly	Ile	Ile	Glu
1				5					10					15
Asn	Lys	Leu	Leu	Glu	Ala	Pro	Asp	Val	Leu	Cys	Leu	Arg	Leu	Ser
				20					25					30
Thr	Glu	Gln	Cys	Gln	Ala	His	Glu	Glu	Lys	Gly	Ile	Glu	Glu	Leu
				35					40					45
Ser	Asp	Pro	Ser	Gly	Pro	Lys	Ser	Tyr	Ser	Ile	Thr	Glu	Lys	His
				50					55					60
Tyr	Ala	Gln	Glu	Asp	Pro	Arg	Met	Leu	Phe	Val	Ala	Ala	Val	Asp
				65					70					75
His	Ser	Ser	Ser	Gly	Asp	Met	Ser	Leu	Leu	Pro	Ser	Ser	Asp	Pro
				80					85					90
Lys	Phe	Gln	Gly	Leu	Gly	Val	Val	Glu	Ser	Ala	Val	Thr	Ala	Asn
				95					100					105
Asn	Thr	Glu	Glu	Ser	Leu	Phe	Arg	Ile	Cys	Ser	Pro	Leu	Ser	Gly
				110					115					120
Ala	Asn	Glu	Tyr	Ile	Ala	Ser	Thr	Asp	Thr	Leu	Lys	Thr	Glu	Glu
				125					130					135
Val	Leu	Leu	Phe	Thr	Asp	Gln	Thr	Asp	Asp	Leu	Ala	Lys	Glu	Glu
				140					145					150
Pro	Thr	Ser	Leu	Phe	Gln	Arg	Asp	Ser	Glu	Thr	Lys	Gly	Glu	Ser
				155					160					165
Gly	Leu	Val	Leu	Glu	Gly	Asp	Lys	Glu	Ile	His	Gln	Ile	Phe	Glu
				170					175					180
Asp	Leu	Asp	Lys	Lys	Leu	Ala	Leu	Ala	Ser	Arg	Phe	Tyr	Ile	Pro
				185					190					195
Glu	Gly	Cys	Ile	Gln	Arg	Trp	Ala	Ala	Glu	Met	Val	Val	Ala	Leu
				200					205					210
Asp	Ala	Leu	His	Arg	Glu	Gly	Ile	Val	Cys	Arg	Asp	Leu	Asn	Pro
				215					220					225
Asn	Asn	Ile	Leu	Leu	Asn	Asp	Arg	Gly	His	Ile	Gln	Leu	Thr	Tyr
				230					235					240
Phe	Ser	Arg	Trp	Ser	Glu	Val	Glu	Asp	Ser	Cys	Asp	Ser	Asp	Ala
				245					250					255
Ile	Glu	Arg	Met	Tyr	Cys	Ala	Pro	Glu	Val	Gly	Ala	Ile	Thr	Glu
				260					265					270
Glu	Thr	Glu	Ala	Cys	Asp	Trp	Trp	Ser	Leu	Gly	Ala	Val	Leu	Phe
				275					280					285

PF-0509 USN

Glu	Leu	Leu	Thr	Gly	Lys	Thr	Leu	Val	Glu	Cys	His	Pro	Ala	Gly
				290					295					300
Ile	Asn	Thr	His	Thr	Thr	Leu	Asn	Met	Pro	Glu	Cys	Val	Ser	Glu
				305					310					315
Glu	Ala	Arg	Ser	Leu	Ile	Gln	Gln	Leu	Leu	Gln	Phe	Asn	Pro	Leu
				320					325					330
Glu	Arg	Leu	Gly	Ala	Gly	Val	Ala	Gly	Val	Glu	Asp	Ile	Lys	Ser
				335					340					345
His	Pro	Phe	Phe	Thr	Pro	Val	Asp	Trp	Ala	Glu	Leu	Met	Arg	
				350					355					

<210> 53

<211> 545

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1645941CD1

<400> 53

Met	Ser	Arg	Lys	Gln	Asn	Gln	Lys	Asp	Ser	Ser	Gly	Phe	Ile	Phe
1				5					10					15
Asp	Leu	Gln	Ser	Asn	Thr	Val	Leu	Ala	Gln	Gly	Gly	Ala	Phe	Glu
				20					25					30
Asn	Met	Lys	Glu	Lys	Ile	Asn	Ala	Val	Arg	Ala	Ile	Val	Pro	Asn
				35					40					45
Lys	Ser	Asn	Asn	Glu	Ile	Ile	Leu	Val	Leu	Gln	His	Phe	Asp	Asn
				50					55					60
Cys	Val	Asp	Lys	Thr	Val	Gln	Ala	Phe	Met	Glu	Gly	Ser	Ala	Ser
				65					70					75
Glu	Val	Leu	Lys	Glu	Trp	Thr	Val	Thr	Gly	Lys	Lys	Lys	Asn	Lys
				80					85					90
Lys	Lys	Lys	Asn	Lys	Pro	Lys	Pro	Ala	Ala	Glu	Pro	Ser	Asn	Gly
				95					100					105
Ile	Pro	Asp	Ser	Ser	Lys	Ser	Val	Ser	Ile	Gln	Glu	Glu	Gln	Ser
				110					115					120
Ala	Pro	Ser	Ser	Glu	Lys	Gly	Gly	Met	Asn	Gly	Tyr	His	Val	Asn
				125					130					135
Gly	Ala	Ile	Asn	Asp	Thr	Glu	Ser	Val	Asp	Ser	Leu	Ser	Glu	Gly
				140					145					150
Leu	Glu	Thr	Leu	Ser	Ile	Asp	Ala	Arg	Glu	Leu	Glu	Asp	Pro	Glu
				155					160					165
Ser	Ala	Met	Leu	Asp	Thr	Leu	Asp	Arg	Thr	Gly	Ser	Met	Leu	Gln
				170					175					180
Asn	Gly	Val	Ser	Asp	Phe	Glu	Thr	Lys	Ser	Leu	Thr	Met	His	Ser
				185					190					195
Ile	His	Asn	Ser	Gln	Gln	Pro	Arg	Asn	Ala	Ala	Lys	Ser	Leu	Ser
				200					205					210
Arg	Pro	Thr	Thr	Glu	Thr	Gln	Phe	Ser	Asn	Met	Gly	Met	Glu	Asp
				215					220					225
Val	Pro	Leu	Ala	Thr	Ser	Lys	Lys	Leu	Ser	Ser	Asn	Ile	Glu	Lys
				230					235					240
Ser	Val	Lys	Asp	Leu	Gln	Arg	Cys	Thr	Val	Ser	Leu	Ala	Arg	Tyr

PF-0509 USN

	245		250		255
Arg Val Val Val	Lys Glu Glu Met Asp	Ala Ser Ile Lys Lys	Met		
	260		265		270
Lys Gln Ala Phe	Ala Glu Leu Glu Ser	Cys Leu Met Asp Arg	Glu		
	275		280		285
Val Ala Leu Leu	Ala Glu Met Asp Lys	Val Lys Ala Glu Ala	Met		
	290		295		300
Glu Ile Leu Leu	Ser Arg Gln Lys Lys	Ala Glu Leu Leu Lys	Lys		
	305		310		315
Met Thr His Val	Ala Val Gln Met Ser	Glu Gln Gln Leu Val	Glu		
	320		325		330
Leu Arg Ala Asp	Ile Lys His Phe Val	Ser Glu Arg Lys Tyr	Asp		
	335		340		345
Glu Asp Leu Gly	Arg Val Ala Arg Phe	Thr Cys Asp Val Glu	Thr		
	350		355		360
Leu Lys Lys Ser	Ile Asp Ser Phe Gly	Gln Val Ser His Pro	Lys		
	365		370		375
Asn Ser Tyr Ser	Thr Arg Ser Arg Cys	Ser Ser Val Thr Ser	Val		
	380		385		390
Ser Leu Ser Ser	Pro Ser Asp Ala Ser	Ala Ala Ser Ser Ser	Thr		
	395		400		405
Cys Ala Ser Pro	Pro Ser Leu Thr Ser	Ala Asn Lys Lys Asn	Phe		
	410		415		420
Ala Pro Gly Glu	Thr Pro Ala Ala Ile	Ala Asn Ser Ser Gly	Gln		
	425		430		435
Pro Tyr Gln Pro	Leu Arg Glu Val Leu	Pro Gly Asn Arg Arg	Gly		
	440		445		450
Gly Gln Gly Tyr	Arg Pro Gln Gly Gln	Lys Ser Asn Asp Pro	Met		
	455		460		465
Asn Gln Gly Arg	His Asp Ser Met Gly	Arg Tyr Arg Asn Ser	Ser		
	470		475		480
Trp Tyr Ser Ser	Gly Ser Arg Tyr Gln	Ser Ala Pro Ser Gln	Ala		
	485		490		495
Pro Gly Asn Thr	Ile Glu Arg Gly Gln	Thr His Ser Ala Gly	Thr		
	500		505		510
Asn Gly Thr Gly	Val Ser Met Glu Pro	Ser Pro Pro Thr Pro	Ser		
	515		520		525
Phe Lys Lys Gly	Leu Pro Gln Arg Lys	Pro Arg Thr Ser Gln	Thr		
	530		535		540
Glu Ala Val Asn	Ser				
	545				

<210> 54

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1646005CD1

<400> 54

Met Asn Trp Val	Ala Val Leu Cys Pro	Leu Gly Ile Val Trp	Met
1	5	10	15

PF-0509 USN

Val	Gly	Asp	Gln	Pro	Pro	Gln	Val	Leu	Ser	Gln	Ala	Ser	Ser	Leu
				20					25					30
Ala	Val	Tyr	Leu	Arg	Ala	Ala	Pro	Tyr	Pro	Asp	Val	Thr	Ala	Lys
				35					40					45
Lys	Leu	Arg	His	Asp	Thr	Asn	Cys	Gly	Phe	Pro	Arg	Gln	Gln	Arg
				50					55					60
Met	Ala	Arg	Gly	His	Glu	Gly	Arg	Ala	Pro	Leu	Leu	Asp	Arg	Pro
				65					70					75
Thr	Leu	Lys	Ser	Arg	Tyr	Leu	Arg	Ala	Asn	His	Lys	Ile	Asn	Thr
				80					85					90
Phe	Glu	Glu	Ile	Thr	Ala	Met	Pro	Ser						
				95										

<210> 55

<211> 565

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1686561CD1

<400> 55

Met	Asn	Arg	Ser	Ile	Pro	Val	Glu	Val	Asp	Glu	Ser	Glu	Pro	Tyr
1				5					10					15
Pro	Ser	Gln	Leu	Leu	Lys	Pro	Ile	Pro	Glu	Tyr	Ser	Pro	Glu	Glu
				20					25					30
Glu	Ser	Glu	Pro	Pro	Ala	Pro	Asn	Ile	Arg	Asn	Met	Ala	Pro	Asn
				35					40					45
Ser	Leu	Ser	Ala	Pro	Thr	Met	Leu	His	Asn	Ser	Ser	Gly	Asp	Phe
				50					55					60
Ser	Gln	Ala	His	Ser	Thr	Leu	Lys	Leu	Ala	Asn	His	Gln	Arg	Pro
				65					70					75
Val	Ser	Arg	Gln	Val	Thr	Cys	Leu	Arg	Thr	Gln	Val	Leu	Glu	Asp
				80					85					90
Ser	Glu	Asp	Ser	Phe	Cys	Arg	Arg	His	Pro	Gly	Leu	Gly	Lys	Ala
				95					100					105
Phe	Pro	Ser	Gly	Cys	Ser	Ala	Val	Ser	Glu	Pro	Ala	Ser	Glu	Ser
				110					115					120
Val	Val	Gly	Ala	Leu	Pro	Ala	Glu	His	Gln	Phe	Ser	Phe	Met	Glu
				125					130					135
Lys	Arg	Asn	Gln	Trp	Leu	Val	Ser	Gln	Leu	Ser	Ala	Ala	Ser	Pro
				140					145					150
Asp	Thr	Gly	His	Asp	Ser	Asp	Lys	Ser	Asp	Gln	Ser	Leu	Pro	Asn
				155					160					165
Ala	Ser	Ala	Asp	Ser	Leu	Gly	Gly	Ser	Gln	Glu	Met	Val	Gln	Arg
				170					175					180
Pro	Gln	Pro	His	Arg	Asn	Arg	Ala	Gly	Leu	Asp	Leu	Pro	Thr	Ile
				185					190					195
Asp	Thr	Gly	Tyr	Asp	Ser	Gln	Pro	Gln	Asp	Val	Leu	Gly	Ile	Arg
				200					205					210
Gln	Leu	Glu	Arg	Pro	Leu	Pro	Leu	Thr	Ser	Val	Cys	Tyr	Pro	Gln
				215					220					225
Asp	Leu	Pro	Arg	Pro	Leu	Arg	Ser	Arg	Glu	Phe	Pro	Gln	Phe	Glu

PF-0509 USN

230	235	240
Pro Gln Arg Tyr	Pro Ala Cys Ala Gln Met Leu Pro Pro Asn Leu	
245	250	255
Ser Pro His Ala	Pro Trp Asn Tyr His Tyr His Cys Pro Gly Ser	
260	265	270
Pro Asp His Gln	Val Pro Tyr Gly His Asp Tyr Pro Arg Ala Ala	
275	280	285
Tyr Gln Gln Val	Ile Gln Pro Ala Leu Pro Gly Gln Pro Leu Pro	
290	295	300
Gly Ala Ser Val	Arg Gly Leu His Pro Val Gln Lys Val Ile Leu	
305	310	315
Asn Tyr Pro Ser	Pro Trp Asp Gln Glu Glu Arg Pro Ala Gln Arg	
320	325	330
Asp Cys Ser Phe	Pro Gly Leu Pro Arg His Gln Asp Gln Pro His	
335	340	345
His Gln Pro Pro	Asn Arg Ala Gly Ala Pro Gly Glu Ser Leu Glu	
350	355	360
Cys Pro Ala Glu	Leu Arg Pro Gln Val Pro Gln Pro Pro Ser Pro	
365	370	375
Ala Ala Val Pro	Arg Pro Pro Ser Asn Pro Pro Ala Arg Gly Thr	
380	385	390
Leu Lys Thr Ser	Asn Leu Pro Glu Glu Leu Arg Lys Val Phe Ile	
395	400	405
Thr Tyr Ser Met	Asp Thr Ala Met Glu Val Val Lys Phe Val Asn	
410	415	420
Phe Leu Leu Val	Asn Gly Phe Gln Thr Ala Ile Asp Ile Phe Glu	
425	430	435
Asp Arg Ile Arg	Gly Ile Asp Ile Ile Lys Trp Met Glu Arg Tyr	
440	445	450
Leu Arg Asp Lys	Thr Val Met Ile Ile Val Ala Ile Ser Pro Lys	
455	460	465
Tyr Lys Gln Asp	Val Glu Gly Ala Glu Ser Gln Leu Asp Glu Asp	
470	475	480
Glu His Gly Leu	His Thr Lys Tyr Ile His Arg Met Met Gln Ile	
485	490	495
Glu Phe Ile Lys	Gln Gly Ser Met Asn Phe Arg Phe Ile Pro Val	
500	505	510
Leu Phe Pro Asn	Ala Lys Lys Glu His Val Pro Thr Trp Leu Gln	
515	520	525
Asn Thr His Val	Tyr Ser Trp Pro Lys Asn Lys Lys Asn Ile Leu	
530	535	540
Leu Arg Leu Leu	Arg Glu Glu Glu Tyr Val Ala Pro Pro Arg Gly	
545	550	555
Pro Leu Pro Thr	Leu Gln Val Val Pro Leu	
560	565	

<210> 56

<211> 197

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1821233CD1

PF-0509 USN

<400> 56

Met	Thr	Pro	Thr	Ser	Ser	Phe	Val	Ser	Pro	Pro	Pro	Pro	Thr	Ala	
1				5					10					15	
Ser	Pro	His	Ser	Asn	Arg	Thr	Thr	Pro	Pro	Glu	Ala	Ala	Gln	Asn	
				20					25					30	
Gly	Gln	Ser	Pro	Met	Ala	Ala	Leu	Ile	Leu	Val	Ala	Asp	Asn	Ala	
				35					40					45	
Gly	Gly	Ser	His	Ala	Ser	Lys	Asp	Ala	Asn	Gln	Val	His	Ser	Thr	
				50					55					60	
Thr	Arg	Arg	Asn	Ser	Asn	Ser	Pro	Pro	Ser	Pro	Ser	Ser	Met	Asn	
				65					70					75	
Gln	Arg	Arg	Leu	Gly	Pro	Arg	Glu	Val	Gly	Gly	Gln	Gly	Ala	Gly	
				80					85					90	
Asn	Thr	Gly	Gly	Leu	Glu	Pro	Val	His	Pro	Ala	Ser	Leu	Pro	Asp	
				95					100					105	
Ser	Ser	Leu	Ala	Thr	Ser	Ala	Pro	Leu	Cys	Cys	Thr	Leu	Cys	His	
				110					115					120	
Glu	Arg	Leu	Glu	Asp	Thr	His	Phe	Val	Gln	Cys	Pro	Ser	Val	Pro	
				125					130					135	
Ser	His	Lys	Phe	Cys	Phe	Pro	Cys	Ser	Arg	Gln	Ser	Ile	Lys	Gln	
				140					145					150	
Gln	Gly	Ala	Ser	Gly	Glu	Val	Tyr	Cys	Pro	Ser	Gly	Glu	Lys	Cys	
				155					160					165	
Pro	Leu	Val	Gly	Ser	Asn	Val	Pro	Trp	Ala	Phe	Met	Gln	Gly	Glu	
				170					175					180	
Ile	Ala	Thr	Ile	Leu	Ala	Gly	Asp	Val	Lys	Val	Lys	Lys	Glu	Arg	
				185					190					195	

Asp Ser

<210> 57

<211> 321

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1877278CD1

<400> 57

Met	Lys	Glu	Asp	Cys	Leu	Pro	Ser	Ser	His	Val	Pro	Ile	Ser	Asp	
1				5					10					15	
Ser	Lys	Ser	Ile	Gln	Lys	Ser	Glu	Leu	Leu	Gly	Leu	Leu	Lys	Thr	
				20					25					30	
Tyr	Asn	Cys	Tyr	His	Glu	Gly	Lys	Ser	Phe	Gln	Leu	Arg	His	Arg	
				35					40					45	
Glu	Glu	Glu	Gly	Thr	Leu	Ile	Ile	Glu	Gly	Leu	Leu	Asn	Ile	Ala	
				50					55					60	
Trp	Gly	Leu	Arg	Arg	Pro	Ile	Arg	Leu	Gln	Met	Gln	Asp	Asp	Arg	
				65					70					75	
Glu	Gln	Val	His	Leu	Pro	Ser	Thr	Ser	Trp	Met	Pro	Arg	Arg	Pro	
				80					85					90	
Ser	Cys	Pro	Leu	Lys	Glu	Pro	Ser	Pro	Gln	Asn	Gly	Asn	Ile	Thr	
				95					100					105	

PF-0509 USN

Ala	Gln	Gly	Pro	Ser	Ile	Gln	Pro	Val	His	Lys	Ala	Glu	Ser	Ser	
				110					115					120	
Thr	Asp	Ser	Ser	Gly	Pro	Leu	Glu	Glu	Ala	Glu	Glu	Ala	Pro	Gln	
				125					130					135	
Leu	Met	Arg	Thr	Lys	Ser	Asp	Ala	Ser	Cys	Met	Ser	Gln	Arg	Arg	
				140					145					150	
Pro	Lys	Cys	Arg	Ala	Pro	Gly	Glu	Ala	Gln	Arg	Ile	Arg	Arg	His	
				155					160					165	
Arg	Phe	Ser	Ile	Asn	Gly	His	Phe	Tyr	Asn	His	Lys	Thr	Ser	Val	
				170					175					180	
Phe	Thr	Pro	Ala	Tyr	Gly	Ser	Val	Thr	Asn	Val	Arg	Val	Asn	Ser	
				185					190					195	
Thr	Met	Thr	Thr	Leu	Gln	Val	Leu	Thr	Leu	Leu	Leu	Asn	Lys	Phe	
				200					205					210	
Arg	Val	Glu	Asp	Gly	Pro	Ser	Glu	Phe	Ala	Leu	Tyr	Ile	Val	His	
				215					220					225	
Glu	Ser	Gly	Glu	Arg	Thr	Lys	Leu	Lys	Asp	Cys	Glu	Tyr	Pro	Leu	
				230					235					240	
Ile	Ser	Arg	Ile	Leu	His	Gly	Pro	Cys	Glu	Lys	Ile	Ala	Arg	Ile	
				245					250					255	
Phe	Leu	Met	Glu	Ala	Asp	Leu	Gly	Val	Glu	Val	Pro	His	Glu	Val	
				260					265					270	
Ala	Gln	Tyr	Ile	Lys	Phe	Glu	Met	Pro	Val	Leu	Asp	Ser	Phe	Val	
				275					280					285	
Glu	Lys	Leu	Lys	Glu	Glu	Glu	Glu	Arg	Glu	Ile	Ile	Lys	Leu	Thr	
				290					295					300	
Met	Lys	Phe	Gln	Ala	Leu	Arg	Leu	Thr	Met	Leu	Gln	Arg	Leu	Glu	
				305					310					315	
Gln	Leu	Val	Glu	Ala	Lys										
				320											

<210> 58

<211> 356

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1880692CD1

<400> 58

Met	Glu	Trp	Leu	Lys	Ser	Thr	Asp	Tyr	Gly	Lys	Tyr	Glu	Gly	Leu	
1				5					10					15	
Thr	Lys	Asn	Tyr	Met	Asp	Tyr	Leu	Ser	Arg	Leu	Tyr	Glu	Arg	Glu	
				20					25					30	
Ile	Lys	Asp	Phe	Phe	Glu	Val	Ala	Lys	Ile	Lys	Met	Thr	Gly	Thr	
				35					40					45	
Thr	Lys	Glu	Ser	Lys	Lys	Phe	Gly	Leu	His	Gly	Ser	Ser	Gly	Lys	
				50					55					60	
Leu	Thr	Gly	Ser	Thr	Ser	Ser	Leu	Asn	Lys	Leu	Ser	Val	Gln	Ser	
				65					70					75	
Ser	Gly	Asn	Arg	Arg	Ser	Gln	Ser	Ser	Ser	Leu	Leu	Asp	Met	Gly	
				80					85					90	
Asn	Met	Ser	Ala	Ser	Asp	Leu	Asp	Val	Ala	Asp	Arg	Thr	Lys	Phe	

PF-0509 USN

	95		100		105
Asp Lys Ile Phe	Glu Gln Val Leu Ser	Glu Leu Glu Pro Leu	Cys		
	110		115		120
Leu Ala Glu Gln	Asp Phe Ile Ser Lys	Phe Phe Lys Leu Gln	Gln		
	125		130		135
His Gln Ser Met	Pro Gly Thr Met Ala	Glu Ala Glu Asp Leu	Asp		
	140		145		150
Gly Gly Thr Leu	Ser Arg Gln His Asn	Cys Gly Thr Pro Leu	Pro		
	155		160		165
Val Ser Ser Glu	Lys Asp Met Ile Arg	Gln Met Met Ile Lys	Ile		
	170		175		180
Phe Arg Cys Ile	Glu Pro Glu Leu Asn	Asn Leu Ile Ala Leu	Gly		
	185		190		195
Asp Lys Ile Asp	Ser Phe Asn Ser Leu	Tyr Met Leu Val Lys	Met		
	200		205		210
Ser His His Val	Trp Thr Ala Gln Asn	Val Asp Pro Ala Ser	Phe		
	215		220		225
Leu Ser Thr Thr	Leu Gly Asn Val Leu	Val Thr Val Lys Arg	Asn		
	230		235		240
Phe Asp Lys Cys	Ile Ser Asn Gln Ile	Arg Gln Met Glu Glu	Val		
	245		250		255
Lys Ile Ser Lys	Lys Ser Lys Val Gly	Ile Leu Pro Phe Val	Ala		
	260		265		270
Glu Phe Glu Glu	Phe Ala Gly Leu Ala	Glu Ser Ile Phe Lys	Asn		
	275		280		285
Ala Glu Arg Arg	Gly Asp Leu Asp Lys	Ala Tyr Thr Lys Leu	Ile		
	290		295		300
Arg Gly Val Phe	Val Asn Val Glu Lys	Val Ala Asn Glu Ser	Gln		
	305		310		315
Lys Thr Pro Arg	Asp Val Val Met Met	Glu Asn Phe His His	Ile		
	320		325		330
Phe Ala Thr Leu	Ser Arg Leu Lys Ile	Ser Cys Leu Glu Ala	Glu		
	335		340		345
Lys Lys Glu Ala	Ala Ile Asn His Lys	Phe Phe			
	350		355		

<210> 59

<211> 299

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2280456CD1

<400> 59

Met Glu Glu Leu Leu	Pro Asp Gly Gln Ile	Trp Ala Asn Met	Asp
1	5	10	15
Pro Glu Glu Arg Met	Leu Ala Ala Ala	Thr Ala Phe Thr	His Ile
	20	25	30
Cys Ala Gly Gln Gly	Glu Gly Asp Val	Arg Arg Glu Ala	Gln Ser
	35	40	45
Ile Gln Tyr Asp	Pro Tyr Ser Lys Ala	Ser Val Ala Pro	Gly Lys
	50	55	60

Arg	Pro	Ala	Leu	Pro	Val	Gln	Leu	Gln	Tyr	Pro	His	Val	Glu	Ser
				65					70					75
Asn	Val	Pro	Ser	Glu	Thr	Val	Ser	Glu	Ala	Ser	Gln	Arg	Leu	Arg
				80					85					90
Lys	Pro	Val	Met	Lys	Arg	Lys	Val	Leu	Arg	Arg	Lys	Pro	Asp	Gly
				95					100					105
Glu	Val	Leu	Val	Thr	Asp	Glu	Ser	Ile	Ile	Ser	Glu	Ser	Glu	Ser
				110					115					120
Gly	Thr	Glu	Asn	Asp	Gln	Asp	Leu	Trp	Asp	Leu	Arg	Gln	Arg	Leu
				125					130					135
Met	Asn	Val	Gln	Phe	Gln	Glu	Asp	Lys	Glu	Ser	Ser	Phe	Asp	Val
				140					145					150
Ser	Gln	Lys	Phe	Asn	Leu	Pro	His	Glu	Tyr	Gln	Gly	Ile	Ser	Gln
				155					160					165
Asp	Gln	Leu	Ile	Cys	Ser	Leu	Gln	Arg	Glu	Gly	Met	Gly	Ser	Pro
				170					175					180
Ala	Tyr	Glu	Gln	Asp	Leu	Ile	Val	Ala	Ser	Arg	Pro	Lys	Ser	Phe
				185					190					195
Ile	Leu	Pro	Lys	Leu	Asp	Gln	Leu	Ser	Arg	Asn	Arg	Gly	Lys	Thr
				200					205					210
Asp	Arg	Val	Ala	Arg	Tyr	Phe	Glu	Tyr	Lys	Arg	Asp	Trp	Asp	Ser
				215					220					225
Ile	Arg	Leu	Pro	Gly	Glu	Asp	His	Arg	Lys	Glu	Leu	Arg	Trp	Gly
				230					235					240
Val	Arg	Glu	Gln	Met	Leu	Cys	Arg	Ala	Glu	Pro	Gln	Ser	Lys	Pro
				245					250					255
Gln	His	Ile	Tyr	Val	Pro	Asn	Asn	Tyr	Leu	Val	Pro	Thr	Glu	Lys
				260					265					270
Lys	Arg	Ser	Ala	Leu	Arg	Trp	Gly	Val	Arg	Cys	Asp	Leu	Ala	Asn
				275					280					285
Gly	Val	Ile	Pro	Arg	Lys	Leu	Pro	Phe	Pro	Leu	Ser	Pro	Ser	
				290					295					

```
<210> 60
<211> 293
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<223> Incyte ID No: 2284580CD1
```

61

PF-0509 USN

	80		85		90
Val Glu Phe Glu Ser Glu Asp Val Ala Lys Ile Val Ala Glu Thr					
	95		100		105
Met Asn Asn Tyr Leu Phe Gly Glu Arg Leu Leu Glu Cys His Phe					
	110		115		120
Met Pro Pro Glu Lys Val His Lys Glu Leu Phe Lys Asp Trp Asn					
	125		130		135
Ile Pro Phe Lys Gln Pro Ser Tyr Pro Ser Val Lys Arg Tyr Asn					
	140		145		150
Arg Asn Arg Thr Leu Thr Gln Lys Leu Arg Met Glu Glu Arg Phe					
	155		160		165
Lys Lys Lys Glu Arg Leu Leu Arg Lys Lys Leu Ala Lys Lys Gly					
	170		175		180
Ile Asp Tyr Asp Phe Pro Ser Leu Ile Leu Gln Lys Thr Glu Ser					
	185		190		195
Ile Ser Lys Thr Asn Arg Gln Thr Ser Thr Lys Gly Gln Val Leu					
	200		205		210
Arg Lys Lys Lys Lys Lys Val Ser Gly Thr Leu Asp Thr Pro Glu					
	215		220		225
Lys Thr Val Asp Ser Gln Gly Pro Thr Pro Val Cys Thr Pro Thr					
	230		235		240
Phe Leu Glu Arg Arg Lys Ser Gln Val Ala Glu Leu Asn Asp Asp					
	245		250		255
Asp Lys Asp Asp Glu Ile Val Phe Lys Gln Pro Ile Ser Cys Val					
	260		265		270
Lys Glu Glu Ile Gln Glu Thr Gln Thr Pro Thr His Ser Arg Lys					
	275		280		285
Lys Arg Arg Arg Ser Ser Asn Gln					
	290				

<210> 61
 <211> 777
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2779172CD1

<400> 61	
Met Val Leu Cys His Ser Phe Leu Tyr Arg Ile Leu Thr Val Gln	
1	5
Gln His Gly Phe Phe Phe Gly His Asp Arg Arg Pro Ala Asp Gly	
	20
Glu Lys Gln Ala Ala Thr His Val Ser Leu Asp Gln Glu Tyr Asp	
	35
Ser Glu Ser Ser Gln Gln Trp Arg Glu Leu Glu Glu Gln Val Val	
	50
Ser Val Val Asn Lys Gly Val Ile Pro Ser Asn Phe His Pro Thr	
	65
Gln Tyr Cys Leu Asn Ser Tyr Ser Asp Asn Ser Arg Phe Pro Leu	
	80
Ala Val Val Glu Glu Pro Ile Thr Val Glu Val Ala Phe Arg Asn	
	95

PF-0509 USN

Pro	Leu	Lys	Val	Leu	Leu	Leu	Leu	Thr	Asp	Leu	Ser	Leu	Leu	Trp
				110					115					120
Lys	Phe	His	Pro	Lys	Asp	Phe	Ser	Gly	Lys	Asp	Asn	Glu	Glu	Val
				125					130					135
Lys	Gln	Leu	Val	Thr	Ser	Glu	Pro	Glu	Met	Ile	Gly	Ala	Glu	Val
				140					145					150
Ile	Ser	Glu	Phe	Leu	Ile	Asn	Gly	Glu	Glu	Ser	Lys	Val	Ala	Arg
				155					160					165
Leu	Lys	Leu	Phe	Pro	His	His	Ile	Gly	Glu	Leu	His	Ile	Leu	Gly
				170					175					180
Val	Val	Tyr	Asn	Leu	Gly	Thr	Ile	Gln	Gly	Ser	Met	Thr	Val	Asp
				185					190					195
Gly	Ile	Gly	Ala	Leu	Pro	Gly	Cys	His	Thr	Gly	Lys	Tyr	Ser	Leu
				200					205					210
Ser	Met	Ser	Val	Arg	Gly	Lys	Gln	Asp	Leu	Glu	Ile	Gln	Gly	Pro
				215					220					225
Arg	Leu	Asn	Asn	Thr	Lys	Glu	Glu	Lys	Thr	Ser	Val	Lys	Tyr	Gly
				230					235					240
Pro	Asp	Arg	Arg	Leu	Asp	Pro	Ile	Ile	Thr	Glu	Glu	Met	Pro	Leu
				245					250					255
Leu	Glu	Val	Phe	Phe	Ile	His	Phe	Pro	Thr	Gly	Leu	Leu	Cys	Gly
				260					265					270
Glu	Ile	Arg	Lys	Ala	Tyr	Val	Glu	Phe	Val	Asn	Val	Ser	Lys	Cys
				275					280					285
Pro	Leu	Thr	Gly	Leu	Lys	Val	Val	Ser	Lys	Arg	Pro	Glu	Phe	Phe
				290					295					300
Thr	Phe	Gly	Gly	Asn	Thr	Ala	Val	Leu	Thr	Pro	Leu	Ser	Pro	Ser
				305					310					315
Ala	Ser	Glu	Asn	Cys	Ser	Ala	Tyr	Lys	Thr	Val	Val	Thr	Asp	Ala
				320					325					330
Thr	Ser	Val	Cys	Thr	Ala	Leu	Ile	Ser	Ser	Ala	Ser	Ser	Val	Asp
				335					340					345
Phe	Gly	Ile	Gly	Thr	Gly	Ser	Gln	Pro	Glu	Val	Ile	Pro	Val	Pro
				350					355					360
Leu	Pro	Asp	Thr	Val	Leu	Leu	Pro	Gly	Ala	Ser	Val	Gln	Leu	Pro
				365					370					375
Met	Trp	Leu	Arg	Gly	Pro	Asp	Glu	Glu	Gly	Val	His	Glu	Ile	Asn
				380					385					390
Phe	Leu	Phe	Tyr	Tyr	Glu	Ser	Val	Lys	Lys	Gln	Pro	Lys	Ile	Arg
				395					400					405
His	Arg	Ile	Leu	Arg	His	Thr	Ala	Ile	Ile	Cys	Thr	Ser	Arg	Ser
				410					415					420
Leu	Asn	Val	Arg	Ala	Thr	Val	Cys	Arg	Ser	Asn	Ser	Leu	Glu	Asn
				425					430					435
Glu	Glu	Gly	Arg	Gly	Gly	Asn	Met	Leu	Val	Phe	Val	Asp	Val	Glu
				440					445					450
Asn	Thr	Asn	Thr	Ser	Glu	Ala	Gly	Val	Lys	Glu	Phe	His	Ile	Val
				455					460					465
Gln	Val	Ser	Ser	Ser	Ser	Lys	His	Trp	Lys	Leu	Gln	Lys	Ser	Val
				470					475					480
Asn	Leu	Ser	Glu	Asn	Lys	Asp	Thr	Lys	Leu	Ala	Ser	Arg	Glu	Lys
				485					490					495
Gly	Lys	Phe	Cys	Phe	Lys	Ala	Ile	Arg	Cys	Glu	Lys	Glu	Glu	Ala
				500					505					510

PF-0509 USN

Ala	Thr	Gln	Ser	Ser	Glu	Lys	Tyr	Thr	Phe	Ala	Asp	Ile	Ile	Phe	
				515					520					525	
Gly	Asn	Glu	Gln	Ile	Ile	Ser	Ser	Ala	Ser	Pro	Cys	Ala	Asp	Phe	
				530					535					540	
Phe	Tyr	Arg	Ser	Leu	Ser	Ser	Glu	Leu	Lys	Lys	Pro	Gln	Ala	His	
				545					550					555	
Leu	Pro	Val	His	Thr	Glu	Lys	Gln	Ser	Thr	Glu	Asp	Ala	Val	Arg	
				560					565					570	
Leu	Ile	Gln	Lys	Cys	Ser	Glu	Val	Asp	Leu	Asn	Ile	Val	Ile	Leu	
				575					580					585	
Trp	Lys	Ala	Tyr	Val	Val	Glu	Asp	Ser	Lys	Gln	Leu	Ile	Leu	Glu	
				590					595					600	
Gly	Gln	His	His	Val	Ile	Leu	Arg	Thr	Ile	Gly	Lys	Glu	Ala	Phe	
				605					610					615	
Ser	Tyr	Pro	Gln	Lys	Gln	Glu	Pro	Pro	Glu	Met	Glu	Leu	Leu	Lys	
				620					625					630	
Phe	Phe	Arg	Pro	Glu	Asn	Ile	Thr	Val	Ser	Ser	Arg	Pro	Ser	Val	
				635					640					645	
Glu	Gln	Leu	Ser	Ser	Leu	Ile	Lys	Thr	Ser	Leu	His	Tyr	Pro	Glu	
				650					655					660	
Ser	Phe	Asn	His	Pro	Phe	His	Gln	Lys	Ser	Leu	Cys	Leu	Val	Pro	
				665					670					675	
Val	Thr	Leu	Leu	Leu	Ser	Asn	Cys	Ser	Lys	Ala	Asp	Val	Asp	Val	
				680					685					690	
Ile	Val	Asp	Leu	Arg	His	Lys	Thr	Thr	Ser	Pro	Glu	Ala	Leu	Glu	
				695					700					705	
Ile	His	Gly	Ser	Phe	Thr	Trp	Leu	Gly	Gln	Thr	Gln	Tyr	Lys	Leu	
				710					715					720	
Gln	Leu	Lys	Ser	Gln	Glu	Ile	His	Ser	Leu	Gln	Leu	Lys	Ala	Cys	
				725					730					735	
Phe	Val	His	Thr	Gly	Val	Tyr	Asn	Leu	Gly	Thr	Pro	Arg	Val	Phe	
				740					745					750	
Ala	Lys	Leu	Ser	Asp	Gln	Val	Thr	Val	Phe	Glu	Thr	Ser	Gln	Gln	
				755					760					765	
Asn	Ser	Met	Pro	Ala	Leu	Ile	Ile	Ile	Ser	Asn	Val				
				770					775						

<210> 62

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3279329CD1

<400> 62

Met	Pro	Pro	Gly	Thr	Val	Leu	Arg	Tyr	Val	Gln	Cys	Leu	Phe	Leu	
1				5					10					15	
Asp	Leu	Cys	Ile	Cys	His	Glu	Ala	Pro	Cys	Gly	Leu	Cys	Met	Lys	
				20					25					30	
Leu	Leu	Leu	Cys	Phe	Trp	Val	Asn	Arg	Cys	Ala	Cys	Gln	Leu	Ala	
				35					40					45	
Cys	Val	Leu	Ser	Lys	Phe	His	Lys	Leu	Lys	Val	Phe	Lys	Gly	Cys	

PF-0509 USN

				50					55				60	
Val	Val	Ser	Glu	Leu	Tyr	Val	Ser	Phe	Leu	Ser	Leu	Tyr	Leu	Gln
				65					70					75
Arg	Val	Arg	Asn	Glu	Ile	Tyr	Thr	Ser	Lys	Val	Ser	Leu	Ile	Asn
				80					85					90
Met	Ala	Phe	Cys	Phe	Ser	Met								
				95										

<210> 63
 <211> 308
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3340290CD1

<400> 63

Met	Ser	Val	Ser	Gly	Leu	Lys	Ala	Glu	Leu	Lys	Phe	Leu	Ala	Ser
1				5					10					15
Ile	Phe	Asp	Lys	Asn	His	Glu	Arg	Phe	Arg	Ile	Val	Ser	Trp	Lys
				20					25					30
Leu	Asp	Glu	Leu	His	Cys	Gln	Phe	Leu	Val	Pro	Gln	Gln	Gly	Ser
				35					40					45
Pro	His	Ser	Leu	Pro	Pro	Pro	Leu	Thr	Leu	His	Cys	Asn	Ile	Thr
				50					55					60
Glu	Ser	Tyr	Pro	Ser	Ser	Ser	Pro	Ile	Trp	Phe	Val	Asp	Ser	Glu
				65					70					75
Asp	Pro	Asn	Leu	Thr	Ser	Val	Leu	Glu	Arg	Leu	Glu	Asp	Thr	Lys
				80					85					90
Asn	Asn	Asn	Leu	Asn	Gly	Thr	Thr	Glu	Glu	Val	Thr	Ser	Glu	Glu
				95					100					105
Glu	Glu	Glu	Glu	Glu	Glu	Met	Ala	Glu	Asp	Ile	Glu	Asp	Leu	Asp
				110					115					120
His	Tyr	Glu	Met	Lys	Glu	Glu	Glu	Pro	Ile	Ser	Gly	Lys	Lys	Ser
				125					130					135
Glu	Asp	Glu	Gly	Ile	Glu	Lys	Glu	Asn	Leu	Ala	Ile	Leu	Glu	Lys
				140					145					150
Ile	Arg	Lys	Thr	Gln	Arg	Gln	Asp	His	Leu	Asn	Gly	Ala	Val	Ser
				155					160					165
Gly	Ser	Val	Gln	Ala	Ser	Asp	Arg	Leu	Met	Lys	Glu	Leu	Arg	Asp
				170					175					180
Ile	Tyr	Arg	Ser	Gln	Ser	Tyr	Lys	Thr	Gly	Ile	Tyr	Ser	Val	Glu
				185					190					195
Leu	Ile	Asn	Asp	Ser	Leu	Tyr	Asp	Trp	His	Val	Lys	Leu	Gln	Lys
				200					205					210
Val	Asp	Pro	Asp	Ser	Pro	Leu	His	Ser	Asp	Leu	Gln	Ile	Leu	Lys
				215					220					225
Glu	Lys	Glu	Gly	Ile	Glu	Tyr	Ile	Leu	Leu	Asn	Phe	Ser	Phe	Lys
				230					235					240
Asp	Asn	Phe	Pro	Phe	Asp	Pro	Pro	Phe	Val	Arg	Val	Val	Leu	Pro
				245					250					255
Val	Leu	Ser	Gly	Gly	Tyr	Val	Leu	Gly	Gly	Gly	Ala	Leu	Cys	Met
				260					265					270

PF-0509 USN

Glu	Leu	Leu	Thr	Lys	Gln	Asn	Gln	Tyr	Asn	Leu	Ala	Arg	Ala	Gln
				275					280					285
Gln	Ser	Tyr	Asn	Ser	Ile	Val	Gln	Ile	His	Glu	Lys	Asn	Gly	Trp
				290					295					300
Tyr	Thr	Pro	Pro	Lys	Glu	Asp	Gly							
				305										

<210> 64

<211> 290

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3376404CD1

<400> 64

Met	Arg	Arg	Pro	Ala	Ala	Val	Pro	Leu	Leu	Leu	Leu	Cys	Phe
1				5				10					15
Gly	Ser	Gln	Arg	Ala	Lys	Ala	Ala	Thr	Ala	Cys	Gly	Arg	Pro
				20				25					30
Met	Leu	Asn	Arg	Met	Val	Gly	Gly	Gln	Asp	Thr	Gln	Glu	Gly
				35				40					45
Trp	Pro	Trp	Gln	Val	Ser	Ile	Gln	Arg	Asn	Gly	Ser	His	Phe
				50				55					60
Gly	Gly	Ser	Leu	Ile	Ala	Glu	Gln	Trp	Val	Leu	Thr	Ala	Ala
				65				70					75
Cys	Phe	Arg	Asn	Thr	Ser	Glu	Thr	Ser	Leu	Tyr	Gln	Val	Leu
				80				85					90
Gly	Ala	Arg	Gln	Leu	Val	Gln	Pro	Gly	Pro	His	Ala	Met	Tyr
				95				100					105
Arg	Val	Arg	Gln	Val	Glu	Ser	Asn	Pro	Leu	Tyr	Gln	Gly	Thr
				110				115					120
Ser	Ser	Ala	Asp	Val	Ala	Leu	Val	Glu	Leu	Glu	Ala	Pro	Val
				125				130					135
Phe	Thr	Asn	Tyr	Ile	Leu	Pro	Val	Cys	Leu	Pro	Asp	Pro	Ser
				140				145					150
Ile	Phe	Glu	Thr	Gly	Met	Asn	Cys	Trp	Val	Thr	Gly	Trp	Gly
				155				160					165
Pro	Ser	Glu	Glu	Asp	Leu	Leu	Pro	Glu	Pro	Arg	Ile	Leu	Gln
				170				175					180
Leu	Ala	Val	Pro	Ile	Ile	Asp	Thr	Pro	Lys	Cys	Asn	Leu	Leu
				185				190					195
Ser	Lys	Asp	Thr	Glu	Phe	Gly	Tyr	Gln	Pro	Lys	Thr	Ile	Lys
				200				205					210
Asp	Met	Leu	Cys	Ala	Gly	Phe	Glu	Glu	Gly	Lys	Lys	Asp	Ala
				215				220					225
Lys	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Val	Cys	Leu	Val	Gly	Gln
				230				235					240
Trp	Leu	Gln	Ala	Gly	Val	Ile	Ser	Trp	Gly	Glu	Gly	Cys	Ala
				245				250					255
Gln	Asn	Arg	Pro	Gly	Val	Tyr	Ile	Arg	Val	Thr	Ala	His	His
				260				265					270
Trp	Ile	His	Arg	Ile	Ile	Pro	Lys	Leu	Gln	Phe	Gln	Pro	Ala
													Arg

PF-0509 USN

Leu Gly Gly Gln Lys 275 280 285
290

<210> 65
<211> 198
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4173111CD1

<400> 65
Met Glu Met Ser Gly Leu Ser Phe Ser Glu Met Glu Gly Cys Arg
1 5 10 15
Asn Leu Leu Gly Leu Leu Asp Asn Asp Glu Ile Met Ala Leu Cys
20 25 30
Asp Thr Val Thr Asn Arg Leu Val Gln Pro Gln Asp Arg Gln Asp
35 40 45
Ala Val His Ala Ile Leu Ala Tyr Ser Gln Ser Ala Glu Glu Leu
50 55 60
Leu Arg Arg Arg Lys Val His Arg Glu Val Ile Phe Lys Tyr Leu
65 70 75
Ala Thr Gln Gly Ile Val Ile Pro Pro Ala Thr Glu Lys His Asn
80 85 90
Leu Ile Gln His Ala Lys Asp Tyr Trp Gln Lys Gln Pro Gln Leu
95 100 105
Lys Leu Lys Glu Thr Pro Glu Pro Val Thr Lys Thr Glu Asp Ile
110 115 120
His Leu Phe Gln Gln Gln Val Lys Glu Asp Lys Lys Ala Glu Lys
125 130 135
Val Asp Phe Arg Arg Leu Gly Glu Glu Phe Cys His Trp Phe Phe
140 145 150
Gly Leu Leu Asn Ser Gln Asn Pro Phe Leu Gly Pro Pro Gln Asp
155 160 165
Glu Trp Gly Pro Gln His Phe Trp His Asp Val Lys Leu Arg Phe
170 175 180
Tyr Tyr Asn Thr Ser Glu Gln Asn Val Met Gly Leu Thr Met Glu
185 190 195
Pro Glu Ser

<210> 66
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 001106CB1

<400> 66
atatatacgt atatacccct cttgcccttg aaggccggaa gtcggtctta cagataaaaag 60

PF-0509 USN

```
cgaacagga agtccccccc ctctatggaa agtaaatggt agctcggaag ggtcaaaaaga 120
gtccgcggtt tcgccgcgtg agttgctttt tgcggctggg gaggtctacg cttctagagc 180
ttgagccagc ggggcgaccc tgcagtggca ggactcggca ccgcgcctc caccgccggt 240
tggtggcctg cgtgacagtt tcctcccgtc gacatcgaaa ggaagccgga cgtgggcggg 300
cagagagctt catcgcagta ggaatggcag ccccatctat gaaggaaaga caggtctgct 360
ggggggcccg ggatgagtac tggaagtgtt tagatgagaa cttagaggat gcttctcaat 420
gcaagaagtt aagaagctct ttcgaatcaa gttgtcccca acagtggata aaatattttg 480
ataaaagaag agactactta aaattcaaag aaaaatttga agcaggacaa tttgagcctt 540
cagaaacaac tgcaaaatcc taggctgttc ataaagattg aaagtattct ttctggacat 600
tgaaaaagct ccactgacta tggaacagta atagtttgaa tcatagttaa catcaatact 660
tgttccctat atacgacact tgataattaa gatgatcaag aaccagaaga tctgtgaaga 720
aatgaaataa aatggtattt agtaagaaat ctctatttta agaaaaaaag taaaacctgt 780
tataacaa 789
```

<210> 67

<211> 1117

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 004586CB1

<220>

<221> unsure

<222> 1022-1024, 1028, 1034, 1036, 1038-1039, 1041, 1049, 1052-1053, 1055, 1062, 1064, 1072, 1075, 1083, 1086-1087, 1093, 1100-1101

<223> a, t, c, g, or other

<400> 67

```
gccagagcgc ttcggccttc ccgacctctc cccggagccc cgggcctccc cggttgcctc 60
cctgagtcct tcctcctctc gccagagccc gagcgccctt cggagaccct cggttttccc 120
cgtccgctct cccggaggca gcgcggggct ataggacgaa gttatacgga agcgtctcct 180
cattgatgga gatggtgctg gagatgatcg gagaattaat ctgctagtga agagtttcat 240
taaattggtgc aactctgggt cccaggaaga gggatatagc cagtaccaac gtatgctgag 300
cacgctgtct caatgtgaat tttcaatggg caaaacttta ctagtatatg atatgaatct 360
cagagaaaatg gaaaattatg aaaaaattta caaggaaata gaatgtagca tagctggagc 420
acatgaaaaa attgctgagt gcaaaaagca aattcttcaa gcaaaacgaa tacgaaaaaa 480
tcgccaagaa tatgatgctt tggcaaaagt gattcagcac catccagaca ggcagagac 540
attaaaggaa ctagaggctc tgggaaaaga attagagcat ctttcacaca ttaaagaaag 600
tggtgaagat aagctggaat tgagacggaa acagtttcat gttcttctta gtaccatcca 660
tgaacttcag caaacattgg aaaaatgatg aaaactctca gaggtagaag aagctcagga 720
agcaagcatg gaaacagatc ctaagccata gacaggctaa ttgccacca ctcccaggaa 780
tattgaaata gctacatgac cataatgtgt ttaaaatgtg gtatgctctt gagatattta 840
aagttttggc agtaaaatac tctgttttta agtatgaatg tatttcattc atatttcctc 900
tcacaaaagga aaatgacttc agtatagatt tgtttttatt aaaatgcatt ttttattctt 960
aagtggtagg aagcaacatc caaaaatgct taataaaatg cttttaagct gcaaaaaaga 1020
annnaaanga gcantnanng ntgggggcnc cnntngtaaa ananaaaggg gnggnccccc 1080
ggntannttg aancccatcn nccccggga ttttaatt 1117
```

<210> 68

<211> 1628

<212> DNA

<213> Homo sapiens

PF-0509 USN

<220>

<221> misc_feature

<223> Incyte ID No: 052927CB1

<220>

<221> unsure

<222> 1460-1464, 1475, 1502, 1510, 1535, 1550, 1554, 1562, 1577, 1594-1595, 1599, 1601-1602, 1605, 1611, 1622, 1627

<223> a, t, c, g, or other

<400> 68

```
ggcggcgccg acgactgcag ctcgggaggt agcggcctgg cgagggacgg gccggctgcc 60
ctctcggacg gccgcggcgg agggcaaaaa tggcggagggc ttcggcgccc ggggcggact 120
cgggcgccgc tgtagccgcc caccggtttt tctgccactt ttgcaagggc gaggtcagcc 180
ccaaactacc ggaatatata tgtcccagat gtgaatcagg ctttattgaa gaagtgcagc 240
atgattccag ttttttaggt ggtggcggca gtcggataga caataccaca acaacacatt 300
ttgcagagct ttggggccat ttggatcaca cgatgttttt tcaagatttt agaccctttc 360
taagtagcag tccactggac caagataata gagccaatga aaggggtcac cagactcaca 420
ctgacttctg gggagcaaga cctccacggg tgccattggg tcggagatac agatctcgag 480
gaagttctcg tcctgacaga tctccagcta ttgaaggaat actacaacac atctttgcag 540
gattccttgc aaattctgcc attcctggat ctccacacc ttttctctgg agcgggatgc 600
tgactccaa cccctggggac tatgcctggg gtcagacagg gcttgatgcc attgtaaccc 660
agcttttagg acaactggaa aacacaggcc ctccccagc tgacaaggaa aagatcacat 720
ctcttccaac agtgacagta actcaggaac aagttgatag gggtttagag tgtccagtat 780
gcaaagaaga ttacacagtt gaagaggaag tccggcagtt accttgcaat cacttctttc 840
acagcagttg tattgtgccg tggctagaac tgcacacac atgtcctgta tgtaggaaga 900
gcttaaattg tgaggactct actcggcaaa gccagagcac tgaggcctct gcaagcaaca 960
gatttagcaa tgacagtcag ctacatgacc gatggacttt ctgaagctaa agaccacacc 1020
tgaatcaggg ctgtggtaat catcttacca tagctgtaaa ttgtatcaaa acaaaaaatt 1080
agtagatgga tttaggaata tgtaagaaac tcaacacata atataaatgc aatgaatggt 1140
tttcttcttt aaattttaaag ttagtatcta cagatggaat tgtatctaca accaaatgcc 1200
tcttatccct gaattcagag tgataatttt ataagtgtga aacttaatta tgtagggtc 1260
cccccgctg aatagaatta attccttaaa gtctagttag ggtcctgctg tctgtcatgt 1320
tgcttgtaa cggatgtttc cacctccttc tccaacctct accccaccat tagtgtattt 1380
tactataaaa acagtggaa cacagcccta aagtcctgct gatataaagt ccttttgtct 1440
taattgtatt taaaaaaaaa nnnnactact cttgntcaca ttagctatga ggcgaggtca 1500
anttcaggtn tctaagacta atgatttttt tttgnttga tccccagagn gcanatcaaa 1560
gnaaaattac agcaagnagg cgaaaagtgg tttnncatng nnttngcttt nggtattttt 1620
tnatttna 1628
```

<210> 69

<211> 1706

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 082843CB1

<400> 69

```
tgatactgaa ttaaatacaa gtggattttt agagtttatt aagcagggga gtggagggga 60
gatgtggcac aaatagaagt atgtaacatt caaacaacag catctaggat ttttggaaaa 120
actttcgggt acagttacac aaagggtcac ttcctcccca gcgacacatg ggcctctcaa 180
aggagaggag ggagtaagtc ccacggtagg gccagtggtt gctccctggg ttttggaaac 240
```



```

attttctgcgg agctttcaag gccagaccct gggcttaggg tgcgacttc atagcagtga 300
cagccagacc cagcaagatg gctgcgaccg tgaaaccctg ggcggcgatc cgggtgcgca 360
tcatgagctg agagcgctgg ctgttgcccc ggtggaagga gtagaggccg taggtgaggg 420
cggccgccgt ggcccaggca acctatgggt accaccgggt tctcgcggtt cttgcgaacg 480
aacttttcct tgaaactctc tggattcctg taaacagtgg ggctcagccc ctcaatgact 540
ggaggcttcg atggttcaaa ggggacctcc ggaatcacag ggccgggagt cgccatgtcc 600
gggccacagc agcaggagaa aatcgggact ccgacctcag cctcccgggtg aaggatcatga 660
aaggggcggg gaaacgaata aattgagcct tgtacgcagg cgcaatgctc gttgcatact 720
gggagtcgta gtgctcagca cggtagtgct acaaaaggac tacatttccc caaatgcccg 780
caaagccttg tgcacgcctt ccggaaggag tttgttacac gaggtctgag agacagaggc 840
agcgtgtttg agctgctggt gcggtgggtc gcgcgatgcc caaggccaag ggcaaaaccc 900
ggaggcagaa gtttggttac agtgtcaacc gaaagcgtct gaaccggaat gctcgacgga 960
aggcagcgcc gcggatcgaa tgctcccaca tccgacatgc ctgggaccac gctaaatcgg 1020
tacggcagaa cctggccgag atgggggttg ctgtggacct caacaggggcg gtgccccctc 1080
gtaagagaaa ggtgaaggcc atggagggtg acatagagga gaggcctaaa gagcttgtac 1140
ggaagcccta tgtgtgaat gacctggagg cagaagccag cttccagaa aagaaaggaa 1200
atactctgtc tcgggacctc attgactatg tacgctacat ggtagagaac cacggggagg 1260
actataaggc catggcccggt gatgagaaga attactatca agatacccca aaacagattc 1320
ggagtaagat caacgtctat aaacgctttt acccagcaga gtggcaagac ttccctgatt 1380
ctttgcagaa gaggaagatg gaggtggagt gactggttta catcacagct gcccagggt 1440
gaggcgctcc ccggaccagt gaagctggag ccagggtgta aggcaaggag gtgctgtgtg 1500
gctccagagg agctggccag gtcccattga atcagaaggt tacacacaca cgtgcacact 1560
ccccgctctg gggaaggaaac tgttctcaga ggctccaatt tatattcatc tgggggttca 1620
cggaagcc agaacctgct gttttcaggg tgggtgatgt aaatatagtg tgtacataat 1680
aaagcaaata tattttactt ctctga 1706

```

<210> 70

<211> 1864

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 322349CB1

<400> 70

```

catgcgcacg tgggccgtgg gtgtacgcgg cgcacgcggc agtcctgatg gcccggcatg 60
ggttaccgct gctgcccctg ctgtcgctcc tggtcggcgc gtggctcaag ctaggaaatg 120
gacaggctac tagcatgggt caactgcagg gtgggagatt cctgatggga acaaattctc 180
cagacagcag agatgggtgaa gggcctgtgc gggaggcgac agtgaaaccc tttgccatcg 240
acatatttcc tgtcaccaac aaagatttca gggattttgt caggagagaa aagtatcgga 300
cagaagctga gatgtttgga tggagctttg tctttgagga ctttgtctct gatgagctga 360
gaaacaaagc caccagcca atgaagtctg tactctggtg gcttccagtg gaaaaggcat 420
tttggaggca gcctgcaggt cctggctctg gcatccgaga gagactggag caccagtgt 480
tacacgtgag ctggaatgac gcccgctgct actgtgcttg gcggggaaaa cgactgcca 540
cggaggaaga gtgggagttt gccgcccag ggggcttgaa gggatcaagt taccatggg 600
ggaactggtt ccagccaaac cgcaccaacc tgtggcaggg aaagtcccc aaggagaga 660
aagctgagga tggcttccat ggagtctccc cagtgaatgc tttccccgcc cagaacaact 720
acgggctcta tgacctcctg gggaacgtgt gggagtggac agcatcaccg taccaggctg 780
ctgagcagga catgcgcgtc ctccgggggg catcctggat cgacacagct gatggctctg 840
ccaatcaccg ggcccgggtc accaccagga tgggcaacac tccagattca gcctcagaca 900
acctcggtt ccgctgtgct gcagacgcag gccggccgcc aggggagctg taagcagcg 960
ggtggtgaca aggagaaaag ccttctaggg tcactgtcat tccctggcca tgttgcaaac 1020
agcgcaattc caagctcgag agcttcagcc tcaggaaaga acttccccct ccctgtctcc 1080

```


PF-0509 USN

```
catccctctg tggcaggcgc ctctcaccag ggcaggagag gactcagcct cctgtgtttt 1140
ggagaagggg cccaatgtgt gttgacgatg gctggggggc aggtgtttct gttagaggcc 1200
aagtattatt gacacaggat tgcaaacaca caaacaattg gaacagagca ctctgaaagg 1260
ccatttttta agcattttta aatctattct ctcccccttt ctccctggat gattcaggaa 1320
gctgacattg tttcctcaag gcagaatttt cctggttctg ttttctcagc cagttgctgt 1380
ggaaggagaa tgctttcttt gtggcctcat ctgtggtttc gtgtccctct gaaggaaact 1440
agtttccact gtgtaacagg cagacatgta actagggtct ttctctgttg cccaggctag 1500
agtgcactgg tgatcacggc tcaacttagc cttgaattcc tgggccaag caattctccc 1560
acctcagcct cctgagtagc tgggactaca agtgtgcacc accatgcctg gctaattttt 1620
tgaatttttg tagtgatggg atctcgctct gttgcccagg gtggtctcga actcctggcc 1680
tcaagcgatc ctcccacctc gacctcccaa agtgtctggg ttacagggtg gagccacctc 1740
gcctggggccc ccttctccat atgcctccaa aaacatgtcc ctggagagta gcctgtctcc 1800
acactgtcac tggatgtcat ggggccaata aaatctcctg caattgtgta tctcaaaaaa 1860
aaaa 1864
```

<210> 71

<211> 2738

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 397663CB1

<400> 71

```
aggtaactgc agtaagtccc gcttggccct ggagtccacg cggattttcg aagctggggc 60
tggcaagagg ccgctggaca ccacgtccca gtcgtcagcc cacttcctag ctgaacagcg 120
cgaggcggcg gcagcgagcc ggggtcccacc atggccgcga attattccag taccagtacc 180
cggagagaaac atgtcaaaagt taaaaccagc tcccagccag gcttcctgga acggctgagc 240
gagacctcgg gtgggatgtt tgtggggctc atggccttcc tgctctcctt ctacctaat 300
ttcaccaatg agggccgcgc attgaagacg gcaacctcat tggctgaggg gctctcgctt 360
gtggtgtctc ccgacagcat ccacagtgtg gctccggaga atgaaggaag gctggtgcac 420
atcattggcg ccttacggac atccaagctt ttgtctgata caaactatgg ggtccatctt 480
ccggctgtga aactgcggag gcacgtggag atgtaccaat gggtagaaac tgaggagtcc 540
agggagtaca ccgaggatgg gcaggtgaag aaggagacga ggtattccta caaactgaa 600
tggaggtcag aaatcatcaa cagcaaaaaa ttgcagcgag agattggcca caaaaacccc 660
agtgccatgg cagtggatgc attcacggca acagccccct ttgtccaaat tggcaggttt 720
ttcctctcgt caggcctcat cgacaaagtc gacaacttca agtccctgag cctatccaag 780
ctggaggacc ctcatgtgga catcattcgc cgtggagact ttttctacca cagcgaaaat 840
cccaagtatc cagaggtggg agacttgctg gtctcctttc ctatgctgga ctgagcggcg 900
atgaccctga cctgggcccc gctcacgtgg tcaactgtgat tgcccggcag cggggtgacc 960
agctagtccc attctccacc aagtctgggg ataccttact gctcctgcac cacggggact 1020
tctcagcaga ggaggtgttt catagagaac taaggagcaa ctccatgaag acctggggcc 1080
tgcgggcagc tggctggatg gccatgttca tgggcctcaa ccttatgaca cggatcctct 1140
acaccttggt ggactggttt cctgttttcc gagacctggg caacattggc ctgaaagcct 1200
ttgccttctg tgtggccacc tcgctgacct tgctgacctg ggcggtggc ttgctcttct 1260
accgacccct gtggggccctc ctcatgtccg gcctggccct tgtgcccata cttgttgetc 1320
ggacacgggt gccagccaaa aagttggagt gaaaagacct tggcaccgc ccgacacctg 1380
cgtgagccct aggatccagg tcctctctca cctctgacct agctccatgc cagagcagga 1440
gccccggctc atttttgact ctgactccc tctctcttcc aggggcccaga cttggcagca 1500
tgtgcaccag gttggtgttc accagctcat gtcttcccca catctcttct tgccagtaag 1560
cagctttggt gggcagcagc agctcatgaa tggcaagctg acagcttctc ctgctgttct 1620
cttctctctc tggactgagt gggtagggcc agccactcag cccattggca gctgacaacg 1680
cagacacgct ctacggaggc ctgctgataa agggctcagc cttgccgtgt gctgcttctc 1740
```


PF-0509 USN

atcactgcac	acaagtgcc	tgctttgcc	ccaccacca	gcacatctgt	gatcctgaag	1800
ggcgcccggt	agtcgttact	gctgagtcct	gggtcaccag	cagacacact	gggcatggac	1860
ccctcaaagc	aggcacaccc	aaaacacaag	tctgtggcta	gaacctgatg	tggtgtttaa	1920
aagagaagaa	acactgaaga	tgtcctgagg	agaaaagctg	gacatatact	gggcttcaca	1980
cttatcttat	ggcttggcag	aatccttgta	gtgtgtggga	tctctgaagg	ccctatttaa	2040
gtttttcttc	gttactttgc	tgcttcatgt	gtactttcct	acccaagag	gaagttttct	2100
gaaataagat	ttaaaaacaa	aacaaaaaaa	acacttaata	tttcagactg	ttacaggaaa	2160
cacccttttag	tctgtcagtt	gaattcagag	cactgaaagg	tgtaaattg	gggtatgtgg	2220
tttgattgat	aaaaagttac	ctctcagtat	tttgtgtcac	tgagaagctt	tacaatggat	2280
gcttttgaaa	caagtatcag	caaaaggatt	tgttttcact	ctgggaggag	aggggtggaga	2340
aagcacttgc	tttcatcctc	tggcatcgga	aactccccta	tgcacttgaa	gatggtttaa	2400
aagattaaag	aaacgattaa	gagaaaaggt	tggaagcttt	atactaaatg	ggctccttca	2460
tggtgacgcc	ccgtcaacca	caatcaagaa	ctgaggcctg	aggctgggtg	tacaatgccc	2520
acgcctgcct	ggctgctttc	acctgggagt	gctttcgaatg	tgggcacctg	ggcttcctag	2580
ggctgcttct	gagtggttct	ttcacgtgtt	gtgtccatag	ctttagtctt	cctaaataag	2640
atccacccac	acctaagtca	cagaatttct	aagttcccca	actactctca	caccctttta	2700
aagataaagt	atgttgtaac	caggatgtct	taaaaaca			2738

<210> 72

<211> 3685

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 673766CB1

<400> 72

ctggcaggaa	gcgaggggtg	ggcgcaatcc	ggagaggacg	ccaggacgac	gcccaggttc	60
cctttcaggc	tagaactctt	cctttttcta	gcttggggta	gaaggcggag	cgtagccccg	120
gaacccccgc	cctcgggggtg	cgaggcggca	gcagggccgt	cccctacatt	tgcatagccc	180
ctgggacgtg	gcgctgcacc	caagcctctt	ctcagttgga	gggaactcca	agtcccacag	240
tgccacgggg	tggggtgctg	cactttcgct	gcgttggagg	ctgaggagaa	ttgagcctgg	300
gaggcgggtc	cggagagggc	tatggaaaag	cgccggcggg	gaatcccggc	cgtagaggga	360
cagtggatag	gtgcccagag	cctacagctg	gcctggggct	cgtgtctggg	cttcggacgt	420
tggggccccg	tgggccaccc	tttccgtagt	tgtcccaaag	ggagctggaa	ttggatgtctg	480
gtgaccaaga	cctgctggcc	ttcctgctag	aggaagctgg	agatttgggg	acggcacccg	540
atgaggccgt	gaggggccca	ctggactggg	cgctgcgcgt	ttctgaggta	ccgagcgact	600
gggaagtaga	tgattttgctg	tgctccctgc	tgagtccccc	agcgtcgttg	aacatttctca	660
gctcctccaa	cccctgcctt	gtccaccatg	accacaccta	ctccctccca	cgggaaactg	720
tctctatgga	tctagagagt	gagagctgta	gaaaagaggg	gaccagatg	actccacagc	780
atatggagga	gctggcagag	caggagattg	ctaggctagt	actgacagat	gaggagaaga	840
gtctattgga	gaaggagggg	cttattctgc	ctgagacact	tcctctcact	aagacagagg	900
aacaaattct	gaaacgtgtg	cggaggaaga	ttcgaaataa	aagatctgct	caagagagcc	960
gcaggaaaaa	gaaggtgtat	gttgggggtt	tagagagcag	ggtcttgaaa	tacacagccc	1020
agaatatgga	gcttcagaac	aaagtacagc	ttctggagga	acagaatttg	tcccttctag	1080
atcaactgag	gaaactccag	gccatggtga	ttgagatata	aaacaaaacc	agcagcagca	1140
gcacctgcat	cttggtccta	ctagtctcct	tctgcctcct	ccttgtacct	gctatgtact	1200
cctctgacac	aaggggggagc	ctgccagctg	agcatggagt	gttgtcccgc	cagcttcgtg	1260
ccctccccag	tgaggaccct	taccagctgg	agctgacctg	cctgcagtca	gaagtgccga	1320
aagacagcac	acaccagtgg	ttggacggct	cagactgtgt	actccaggcc	cctgggaaca	1380
cttctctgct	gctgcattac	atgcctcagg	ctcccagctg	agagcctccc	ctggagtggc	1440
cattccctga	cctcttctca	gagcctctct	gccgaggtcc	catectcccc	ctgcaggcaa	1500
atctcacaag	gaaggggagga	tggcttccta	ctggtagccc	ctctgtcatt	ttgcaggaca	1560


```

gatactcagg ctagatatga ggatatgtgg ggggtctcag caggagcctg gggggctccc 1620
catctgtgtc caaataaaaa gcggtgggca agggctggcc gcagctcctg tgccctgtca 1680
ggacgactga gggctcaaac acaccacact taatggcttt ctgggtcttt tatttgtacc 1740
catgtgtctg tcacaccatg aatgtacctg gggaaatcaa ctgacctccc tgaacatttc 1800
acgcagtcag ggaacagggtg aggaaagaaa taaataagtg attctaagtc tgcctaggtc 1860
accctcaacc cccatttact ggcacaattg ggtggagaga agggaagggg tatgattgtc 1920
ctgatggctc agggttgcag gaggttcaga ggggaaggag gaaaggccag gctggaggct 1980
gggctgttag cacttccctc ccacagttca gacggctcac tctgggctca ggtttgccat 2040
ggcttccttt ggtccaaaca taggccctgt ccttagtcct gtgccctgtt tgacttttgg 2100
ccaggaggcc tttttgtgct gctgctgttg cagggttagc tgcattggcc atatgtcag 2160
tgcccgcatg taggccagtg agcggaaacac tcgctgctgg cagtatgcct ctggggctctg 2220
gaaggccaga cccaggcgct cccacacggg acggttagcag ccttcagctg tctggaagcc 2280
ctcccaagtc aggcctctct ggatcatggt agctgccagc ccgtagacca caccaccca 2340
gacttcatca gactgcacac tggatttatc agggacacca tggggctgca tcccattcac 2400
agcccccatg gcccctcctg caaaggcctg gacgttcagc tcaaagatag tttggagagc 2460
acggaccaca tgttgggtag gaaacacctc agtgtctcct tctcctaggc cacaggcctt 2520
caggaaccac tgtccagcac actggtcaga cataacacta cgagactgag gccgagagct 2580
gctgtcatag ttgtaatagc ggccattcca cagcagtcct tcataggctt cttggccccg 2640
gctgaggata gaagaaaact tatcctggat gtctgtgcc ccacacagag cagccatctg 2700
gacctacaca gccacagctg ccagccacag cctccacag taagcactgg ggcctgtggt 2760
caccatcca tcataggctt ggtctgcata gcctccattt tcaatgagtc catcatggtc 2820
cttgtcaaac ttcatttcag attccatcac agctagacac acaggccaca tgtccttcag 2880
gaagttttga tcacccgtga ggtaatagtc ccgataaacc tgcagcacia acttcagggt 2940
caggtccttc caatcagcag tatcatggat taaatatgca ttgacgcgga gccatgggtc 3000
atcatctggg tccccaatat catgggggat gacgttcctc cttttcacag gtgccatcac 3060
cccatcctc aggtaccgtc gccgtgtcag gtcttcctg agagtggcca gagccatgtc 3120
atactgtagg ctgagctcaa gtttgggcca gagcatgat agggcaaagg aagcataaaa 3180
gtggacatca tatgtgttgt acatgcggta ctctggccc tcaaggtagc caaatcgacc 3240
gtagtcccg aggggtggggc ggaggtgaca catgtttctg cccagctcct ctggtaggga 3300
gtcctcaaga acttccagcc aactgtgccc tccatcagcc aggaagtata gttcattgaa 3360
cagcgcagat ttgtaccagg caggcagtga tctgtcatcc aataccgggc tctgccaaagc 3420
tgagatcctc tcttcccact ctgctatcgc gcacagtgc tagtggtga gggcagggtc 3480
tgcatctcca tcctggccaa agaaccttgt ataccgcctg tagtggaact ggccttttagc 3540
tccaaacatg atcctgggca tgtcccaagc cagtgaiaac tccaggcggc actggcctcg 3600
aggtcgcaac ttgctggaaa cacacacagc tccagcaatg cctactcctt tctgcgtagg 3660
ggtgctttgg cctgagctcg agccg 3685

```

<210> 73

<211> 1801

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1504753CB1

<220>

<221> unsure

<222> 12, 15, 17, 1675, 1687, 1702, 1709, 1712, 1715, 1717, 1722,
1732-1733, 1737, 1747, 1752-1754, 1757, 1759, 1764, 1769, 1787

<223> a, t, c, g, or other

<400> 73

ccgaattcgg anagnncat acgcagtcgc gcaggagcag cagcataatc cagcatgttg 60


```

ggctgcccctt agcgccaggc acacacagcg caccaacaag tctaccacag tctgacctaa 120
gccagttttca aactcagacc cagccttttag tcgggcaagt cgacgatact agaagaaaat 180
cagaacccct acctcaacca ccactttctc tcattgctga aaataagcct gttgtgaagc 240
cgctgtttgc agattccctg gcaaaccccc ttcagttaac acctatgaac agtctggcca 300
cctctgtatt cagcatagct attcctgttg atggtgatga agacaggaat ccttcaactg 360
ctttctacca agcgttccat ttgaacacgt taaaggaatc aaagagcctc tgggatagtg 420
catctggggg aggtgttgta gccattgaca acaaaataga acagcaatg gatctggtga 480
aaagccattt gatgtatgca gtaagagaag aagtggaagt tttaaaggaa caaataaaaag 540
aattagttga aagaaactct ttacttgaac gagaaaatgc actgttaaaa tctctttcaa 600
gcaatgatca attatcccaa ctcccaaccc aacaggccaa tcctggtagc acttctcaac 660
agcaagcagt gatagcacag cctccgcagc caacgcaacc tccacagcag ccgaatgtct 720
cctcagcata aagctttctt aagcctcatt aagaaaaaaa ctgaaagcaa tctatccttg 780
tgtgccactg gtgttctttc cactttatac gaaagcaagt agccatgctt tggttgtgtg 840
tttggccttt tcagtattag acaatcattc tacaagagct tttcctctct ctgagatgtc 900
atgcagcgct gttgatgtcc agttctatgt catcagtaca caaggagaat aatagatggg 960
gtttattaaa gcgagcaaaag tctgcatttt acctggtgcg catgagtggg gtctttaaga 1020
gttttggtgg ctctcccatg tttcctatta cccatggatt taccctgagc ctctctatca 1080
cattataaat aacagttcat ctaaagagcc acttttcttt ctgattcagt aacatttgcc 1140
tacataagtt ttcatttatt tgtgttttat ttattacagg gctgctattt tcataatgta 1200
catgaacaat gtcacagaac ttttttaatt tttttgaata attataagta tcagtaaagg 1260
aagtgaaga caggattgca tttaatatag aaaacgttta ggcaataatt gaacaaaaga 1320
atcctggcat atttctaaca ctaatggcaa tttacttatg gtatttattt tcagtagtaa 1380
agaccagct tgaatgtaaa ttttgtatag tgtaagtatg aagaacatag tgcaactgta 1440
caggtagtca ccagttattg tgatatgata aataattggg ctattttgat gaagaaaact 1500
ttgttcattt gtttctactt tctaagagaa attgccacga ttcctctgct tttcaacatt 1560
tcgtatgact tttttttcgg gtggaataa aaagctgtga aattgttcaa cctactttgt 1620
aaccaaagaa gcaagctgt gtaatggagt ttgggttttt tttgttgtt tttnttttt 1680
gtctttngtt tgtttttata angcacaanc tntangnatt tntaattagg gnnttcncag 1740
tcacaanttt cnnnacngnc tagnaaganc cgcaagaccc aaaaacnttg aaccaccttc 1800
g 1801

```

<210> 74

<211> 1578

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1760185CB1

<400> 74

```

ctcgagccgc gttactctgc gcgtaagtcg cttgtccgtg gcttctctga gaagaaaagt 60
tgaaaaaggg taaaagtttt caggaatatt cgggctctct attgctaagc atagcgagtg 120
tcgggttttct ctctccaaca gacatcgcta ttgcggttcc gaggcagtgg gaagagatgc 180
ggcccttggg catcgtcgag ctggcggaac cggaggaagt ggaggtgctg gagcccagg 240
aggatttcga gcagtttctg ctcccgggtca tcaacgagat gcgcgaggac atcgcgtcgc 300
tgacgcgcga gcacgggagg gcgtacctgc ggaaccggag caagctgtgg gagatggaca 360
atatgtcat ccagatcaaa acgcagggtg aggcctcgga ggagagcgcc ctcaaccacc 420
tccagaaccc gggcgacgcg gccgagggcc gggcggccaa gaggtgagc aaggccgagg 480
agaaggccaa ggagattgag aagatggcag agatgctggt ggagctggtc cggcggatag 540
agaagagcga gtcgtcgtga gcgcggtcgg cggtttccag ccaatggatt ctggtcaact 600
gggtggagatt ggctgacacc ctggagaagc cgaaaccaga gagccttttg ttttctcttt 660
tttctgtct atgctctgtc tcaacttaaca ctacgttttc tgctatggtc tgtggttgat 720
gacctcaata tgagtttcga ttgttaacgt gtttttgttt gggaagtaat tttgtttgaa 780

```



```

aatgctctca catcacaggaa ttagggccta gattgtaagc tcttgacgca gtcacatttg 840
ttcccgggct ttgggtggtta tttctaaatt tttgaggtgc tttgctatct cttgtgtgac 900
ctgatatgctc cctggaactt tgggtctgtg tgtgacacat gagactcaca gttggagttc 960
tccagctctg gaggtgctga aggagctgca ttaattctgg aagacgactc catgcagcaa 1020
ctactgaaga aaggaccaga cttcaacggg gagtgtggat gggtcgacct ggctgggact 1080
cgtgaatctg gagaagagct ggagaatgga tagtattgtc tgtatttggg gactttaatc 1140
tctgtgtgag accaaaggag gagagatgtg ttttgctcaa aatctaaatt tgttgtggta 1200
cactatctta tgtaacctgt ctggtgagtt tgtttggaca acctaactca gctttatttg 1260
acatggaacc taaaatagaa gataagatct tgatattctg tacaagttga tgtaataccc 1320
tgatgcgttt tagaggactt ggcataaaat gaaagattgg caaaggccct tgaggggctt 1380
ggggatgaga gtatggaact gtctgcattg gaccctaaac tggactagaa gaggcattct 1440
caaggttcat acgttgtcca gctgtaagtt catttgagta gcagacctaa caaatatttg 1500
agggtcaaac cctaccatgt taaaacaaac aaaaacttac catgttaata aaagtattca 1560
tttgcttgaa aaaaaaaaaa 1578

```

<210> 75

<211> 1624

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1805061CB1

<400> 75

```

gccgtcgcgg acgccgctcc gggcagccga gcctctgtgg gagccggggc cgcggcggcg 60
cgggtgctcc gggccgaggg cgctctgtgc tcttgctgat tgaattcctt tgggtgcagtt 120
tagcatgttc ctctgtgttc tgcatctcct gtagtgtaat gttcaagctc agaaatgcct 180
tatgtggatc gtcagaatcg catttgtggt tttctagaca ttgaagaaaa tgaaaacagt 240
gggaaatttc ttcgaaggta cttcatactg gataccagag aagatagttt cgtgtggtac 300
atggataatc cacagaacct accttctgga tcacacgtg ttggagccat taagcttacc 360
tacatttcaa aggttagcga tgctactaag ctaaggccaa aggcggagtt ctgttttgtt 420
atgaatgcag gaatgaggaa gtacttccta caagccaatg atcagcagga cctagtggaa 480
tggtgaaatg tgtaaacaaa agctataaaa attacagtac caaagcagtc agactcacag 540
cctaattctg ataacctaag tcgccatggt gaatgtggga aaaagcaagt gtcttacaga 600
actgatattg ttggtggcgt acccatcatt actccactc agaaagaaga agtaaatgaa 660
tgtggtgaaa gtattgacag aaataatctg aaacggtcac aaagccatct tccttacttt 720
actcctaaac cacctcaaga tagtgcggtt atcaaagctg gatattgtgt aaaacaagga 780
gcagtgatga aaaactggaa gagaagatat tttcaattgg atgaaaacac aataggctac 840
ttcaaatctg aactggaaaa ggaacctctt cgcgtaatac cacttaaaga ggttcataaa 900
gtccaggaat gtaagcaaaag cgacataatg atgagggaca acctctttga aattgtaaca 960
acgtctcgaa ctttctatgt gcaggctgat agccctgaag agatgcacag ttggattaaa 1020
gcagtctctg gcgccattgt agcacagcgg ggtcccggca gatctgcgtc ttctatgcgg 1080
caggccagaa ggctgtcgaa cccttgata cagaggagca tcccccggt ccttcagaat 1140
ccaaacacgc tttccgtcct accaacgcag ccgcccgcac ctcacattcc acagcctctc 1200
gcagcaactc tttggtctca acctttacca tggagaagcg aggattttac gagtctcttg 1260
ccaagggtcaa gccagggaac ttcaagggtc agactgtctc tccaagagaa ccagcttcca 1320
aagtgactga acaagctctg ttaagacctc aaagtaaaaa tggccctcag gaaaaagatt 1380
gtgacctagt agacttggaac gatgagagcc ttccggtcag tgacgtgtga ggcagaagcg 1440
cacggagcct gcctgcctct gccgtcctca gtttcttttc atgaggcttc tagccaaaga 1500
tgataaaggg ggaaatgggt tttagtgcgt atattatact gcctcttagg tgtactcttt 1560
ataagctggt aaaccaagaa tctagggagt ggccaaacta aatataattt ctttaaaaaa 1620
aaaa 1624

```


PF-0509 USN

<210> 76

<211> 1675

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1850120CB1

<400> 76

```
cggggtcttag ctccagggtgc gtacggcatc tgacttgacg tggcccacaa ctgaaaggtc 60
tgggggagaag gcgccgtgtc cgggtgtgga gaggggcgtc gtggaagcga gaagagtggc 120
ccgtccctct cctccccctt tccctctttc ggaaagtggg ttctgcgggg cccgggagcc 180
tcggagtacc gaacctcgat ctccggggcg gggtccttgg tggggactga gcgccccctc 240
ccggggacgg gcggtctggc cgcgaggtcc cctgcgggag cgtgattggc tggaaacggg 300
cccgaacccc caggggagcc cgatccctgg gggaccttgg cttcggactc cagtatctgt 360
cgtcgcaggg tccctgccct agtggcctat gtcccttget cggggccatg gagacactgc 420
ggccagtacg gcggcgcctc tgtctgaaga aggggaagtg acctccggcc tccaggctct 480
ggccgtggag gataccggag gcccctctgc ctccggcggg aaggccgagg acgaggggga 540
aggaggccga gaggagaccg agcgtgaggg gtccgggggc gaggaggcgc agggagaagt 600
ccccagcgct gggggagaag agcctgccga ggaggactcc gaggactggg gcgtgccctg 660
cagcgacgag gaggtggagc tgcctgcgga tgggcagccc tggatgcccc cgccctccga 720
aatccagcgg ctctatgaac tgctggctgc ccacggtact ctggagctgc aagccgagat 780
cctgccccgc cggcctccca cgccggagcg ccagagcgaa gaggagagat ccgatgagga 840
gccggaggcc aaagaagagg aagaggaaaa accacacatg cccacggaat ttgattttga 900
tgatgagcca gtgacaccaa aggactccct gattgaccgg agacgcaccc caggaagctc 960
agccccgagc cagaaacggg agggccgcct ggacaagggt ctgtcggaca tgaagagaca 1020
caagaagctg gaggagcaga tccttcgtac cgggagggac ctcttcagcc tggactcgga 1080
ggaccccgag cccgccagcc cccactccg atcctccggg agtagtctct tccctcggca 1140
gcggaataac tgattcccac tgctcctgcc tctaggggtg agtgtccgta cctgctggag 1200
cctggggcct ccttccccag ccagacatt gagaaacttg ggaagaagag agaaacctca 1260
agctcccaaa cagcacgttg cgggaaagag gaagagagag tgtgagtgtg tgtgtgtgtt 1320
ttttctattg aacacctgta gagtgtgtgt gtgtgttttc tattgaacac ctatagagag 1380
agtgtgtgtg ttttctattg aacatctata tagagagagt gtgtgagtgt gtgttttcta 1440
ttgaacacct attcagagac ctggactgaa ttttctgagt ctgaaataaa agatgcagag 1500
ctatcatctc ttaaaaggag gggctgtagc tgtagctcaa cagttaggcc ccacttgagg 1560
ggagaggcag aattgtactc acccagattg gaaaatgaaa gccagatggg tagaggtgcc 1620
ctcagttagc acctgtccca tctcggggcc tccaactcct cccagtccca ctcca 1675
```

<210> 77

<211> 1319

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1852290CB1

<220>

<221> unsure

<222> 1106, 1112, 1137, 1164-1165, 1168, 1171, 1173, 1181, 1187, 1190-1191, 1194, 1201-1202, 1215, 1248-1249, 1258-1259, 1297-1298, 1309-1311

<223> a, t, c, g, or other

<400> 77

```

gaaaggaggt gtgtatccag cttggggctc cagttttctg cccgcctcct tttacgttat 60
tgcggaggac ggcgccggac agtcaacgtc atctaggagc accgagcagc ttggctaata 120
gtaaggggtgt cgtgctgatg gccctgtgcg cactgaccgc cgctctgcgc tctctgaacc 180
tggcgcccccc gaccgtcgcc gccctgccc cgagtctgtt ccccgccgcc cagatgatga 240
acaatggcct cctccaacag cctctgcct tgatgttgct cccctgccgc ccagttctta 300
cttctgtggc ccttaatgcc aacttttgtt cctggaagag tcgtaccaag tacaccatta 360
caccagtgaag gatgaggaag tctggggggc gagaccacac aggcgaatc cgggtgcatg 420
gtattggcgg gggccacaag caacgttatc gaatgattga ctttctgcgt ttccggcctg 480
aggagaccaa gtcaggaccc tttgaggaga aggttatcca agtccgctat gatccctgta 540
ggtcagcaga catagctctg gttgctgggg gcagccggaa acgctggatc atcgccacag 600
aaaacatgca ggctggagat acaatcttga actctaacca cataggccga atggcagttg 660
ctgctcggaagg aggggatgcg catcctcttg gggctctgcc tgtggggacc ctcacataca 720
acgtggaaaag tgagccaggc cggggtgccc aatatatccg agctgcaggg acgtgtggtg 780
tgctactgcy gaaggtgaat ggcacagcca ttatccagct gccctctaag aggcagatgc 840
aggtgctgga aacgtgcgta gcaacagtag gccgagtatc caacgttgat cataacaaac 900
gggtcattgg caaggcaggt cgcaaccgct ggctgggcaa gaggcctaac agtgggaggg 960
ggcaccgcaa ggggggctgg gctggccgaa agattcggcc actaccccc atgaagagtt 1020
acgtgaagct gccttctgct tctgcccata gctgatatcc ctgtactcta ataaaatgcc 1080
cccccccccg ttttaattctg attggncaaa angccccctt tattcccaaa aaatggnc 1140
cccttaaaaag gaggggaaaaa tttnnccang ntntttttaa ngggggnaaa nggnaattgg 1200
nnaggggggtt ccacnaaaaaa gggggggaat tttttgggga atggaaannt ttccccgnnc 1260
tgggggaaaaa ccccccccg ggttttttta agggttnnca aggaaaatnn ncctttggg 1319

```

<210> 78

<211> 1113

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1944530CB1

<220>

<221> unsure

<222> 1057

<223> a, t, c, g, or other

<400> 78

```

gtcaccgcga ggtctgagct gtgggctgag gcagcgcacc gcctgccgca ggggtgcgca 60
tgccttgaac ctgggaaact atgtgaagca acactctgga ttttgaaaga catcttttca 120
tcatgggaca gcaaatttcg gatcagacac agttgggttat taacaagtta ccagaaaaag 180
tagcaaaaaca tgttacgttg gttcgagaga gtggctcctt aacttatgaa gaatttctcg 240
ggagagtagc tgagcttaat gatgtaacgg cttaaagtggc ttctggccag gaaaaacatc 300
ttctctttga ggtacaacct gggctctgatt cctctgcttt ttggaaagtg gttgtacggg 360
tggctctgtac caagattaac aaaagcagtg gcattgtgga ggcacacagg atcatgaatt 420
tataccagtt tattcaactt tataaagata tcacaagtca agcagcagga gtattggcac 480
agagctccac ctctgaagaa cctgatgaaa actcaccctc tgtaacatct tgtcaggcta 540
gtcttttgat gggaagggtg aagcagctga ccgatgagga ggagtgttgt atctgtatgg 600
atgggagggg tgacctcatc ctgccttgtg ctcacagctt ttgtcagaag tgtattgata 660
aatggagtga tcgacacagg aattgcccta tttgtcgcc acagatgact ggagcaaatg 720
aatcttgggt ggtatcagat gcaccactg aagatgatat ggctaactat attcttaaca 780
tggctgatga ggcaggccag cccacaggc catgaccttg aagtgaagtg cttctgttgc 840
tattgtgggc tcaaatattt ggtcatgggg gaagaatgta gggttgtggc actggcacag 900

```


PF-0509 USN

```
acacaggaaa atccattttc cccactcttt tatttttgct attctgatca tttgtccccc 960
ttttaaaaaat aaacttccca tgccttccat ttgtgggtact aaaatttgct actgttttag 1020
accatatttt ccattattta tcgttcaaatt ttgtatnatt acaactaata gccttgaatt 1080
ctttgctaaa ggtaacagca acacttccag agg 1113
```

<210> 79

<211> 1963

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2019742CB1

<400> 79

```
ggttgaggct gggcgcccca aggtggaagg aggggccgtg aggtgagaga gtccggggagc 60
ccgagcttga gatggcctga tatgaaggag tcacgcctcc cgctcccgagg agctgcccag 120
tggtgcctt gtccttcaag tgcaggagct gggtcaaagt tcaggaatgg aagccactgt 180
gaccatccca atctggcaaa acaagccaca tggggctgct cgaagtgtag taagaagaat 240
tgggaccaac ctacccttga agccgtgtgc ccgggcgtcc tttgagacct tgcccaacat 300
ctctgacctg tgtttgagag atgtgcccc agtccctacc ctggctgaca tcgcctggat 360
tgctgcggat gaagaggaga catatgccc gggtcaggagt gatacgcgcc ccctgaggca 420
cacctggaaa cccagccctc tgattgtcat gcagcgcaat gcctctgttc ccaacctgcg 480
tgggtccgag gagaggcttc tggccctgaa gaagccagct ctgccagccc taagccgcac 540
tactgagctg caggacgagc tgagccactt gcgcagccag attgcaaaga tagtggcagc 600
tgatgcagct tcggcttcat taacgccaga tttcttatct ccaggaagtt caaatgtctc 660
ttctccctta ccttgttttg gatcctcatt ccactctaca acttcctttg tcattagtga 720
catcaccgag gagacagagg tggaggtccc tgagcttcca tcagtcccc tgctttgttc 780
tgccagccct gaatgttgca aaccagaaca caaagctgcc tgcagttcgt ctgaagagga 840
tgactgcgtc tctttgtcca aggccagcag ctttgagcac atgatgggtg tcctgaagga 900
ctttcaccga atgaaacaga gtcaagatct gaaccggagt ttattgaagg aggaagacct 960
tgctgtgctt atctctgagg tcctaaggag gaagtttgct ctaaaggag aagatatcag 1020
tagaaaagga aattgacaac cctcagctct gcaaactcag tctcatgctc ctggaatacc 1080
ttcaatagct gccttcctca ccgcagatgt ttctgctct taaggataga tcttctgcaa 1140
cagtcttgct gacaagctag agcttgagc gaaagagaag agctggatta tatatttccc 1200
agacttcaaa ccctagcaga agctaaggct tgtgatttga cctgagacat ttgtttcagg 1260
taatcgtgta gaatgaagta tcttagttta aagggtgaaga gagaagttgt ttctgggttt 1320
tccttgcccc tgtgtgaaaa taggtcctaa atgactgact tcactgcatt agacctata 1380
gctgggtctca caagacactt tgtgcccagc tgtcactcac tctcagcagc ttccttgagc 1440
cagagcaggg ctgaggggaa ggggctatga atgtttgtat acatgttcac agggcacgga 1500
aaatcttatg ctgctccgct ataaacctac accaatgccc agcaatcacc ctctcactt 1560
ccttgcttag atgtagaggt caggctgctg aaccagccaa cacatgggct actgctggga 1620
agcctgggct gttttttttc ttaaacacat tttatattac tgaacaacca aatctacct 1680
ccacggccct gaggccttat cagtccact gattaaaaac tttctcttcc acggacttta 1740
agcccggtag gaaagagaga ggaggagggg gaaagagcaa accatctttc ttccaggccc 1800
ttgactgctc ctttgggctg ggccaagggt tgtatgtacc acaccatgca tgactcagat 1860
gccctcaggt ccctttctct atgggtatgta tactgcttgt gtttgggttg aagcactacc 1920
tgacattaaa ggaaggactt ggagagagaa tgcaaaaaaa aaa 1963
```

<210> 80

<211> 1089

<212> DNA

<213> Homo sapiens

PF-0509 USN

<220>

<221> misc_feature

<223> Incyte ID No: 2056042CB1

<400> 80

```
agccgcggct ccggaagacc ctcgtcctgg gcggcgggtg tgccggcggtc gccgttatgg 60
ccactgggct gggcgggtga ccgccgggct aggaaagggc ccaggggccc gaatctcggt 120
ggccgctgct ccagcgcggc ctgcgccatg gcctcctccg ccgcctcctc ggagcatttc 180
gagaagctgc acgagatctt ccgcggcctc catgaagacc tacaaggggt gcccgagcgg 240
ctgctgggga cggcggggac cgaagaaaag aagaaattga tcagggattt tgatgaaaag 300
caacaggaag caaatgaaac gctggcagag atggaggagg agctacgtta tgcacccttg 360
tctttccgaa accccatgat gtctaagctt cgaaactacc ggaaggacct tgctaaactc 420
catcgggagg tgagaagcac acctttgaca gccacacctg gaggccgagg agacatgaaa 480
tatggcatat atgctgtaga gaatgagcat atgaatcggc tacagtctca aagggaatg 540
cttctgcagg gcaactgaaa cctgaaccgg gccacccaaa gtattgaacg ttctcatcgg 600
attgccacag agactgacca gattggctca gaaatcatag aagagctggg ggaacaacga 660
gaccagttag aacgtaccaa gtagtagctg gtaaacacaa gtgaaaactt gagcaaaagt 720
cggaagattc tccgttcaat gtccagaaaa gtgacaacca acaagctgct gctttccatt 780
atcatcttac tggagctcgc catcctggga ggcttggtt actacaaatt ctttcgcagc 840
cattgaactt ctatagggaa gggtttggtg accagaactt tgaccttggt aatgcatgat 900
gttagggatg tggatagaat aagcatattg ctgctgtggg ctgacagttc aaggatgcac 960
tgtatagcca ggctgtggga ggaggaggga aagatgaaaa accacttaaa tgtgaaggaa 1020
caacagcaac aagaccagta tgatatacca aggtaataaa tgctgtttat gactttctta 1080
aaaaaaaaa 1089
```

<210> 81

<211> 1325

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2398682CB1

<220>

<221> unsure

<222> 1280, 1283-1285, 1288-1291, 1294-1295, 1298-1300, 1306, 1310, 1312-1314, 1317, 1319-1320, 1322

<223> a, t, c, g, or other

<400> 81

```
gcggagtttg gctgctccgg ggtagcagg tgagcctgca atgcgcggga agacgttccg 60
ctttgaaatg cagcgggatt tggtagattt cccgctgtct ccagcgggtg ggggtgaagct 120
ggtgtctgcg gggttccaga ctgctgagga actcctagag gtgaaaccct ccgagcttag 180
caaagaagtt gggatatcta aagcagaagc cttagaaact ctgcaaatta tcagaagaga 240
atgtctcaca aataaaaccaa gatatgctgg tacatctgag tcacacaaga agtgtacagc 300
actggaactt cttgagcagg agcataccca gggcttcata atcaccttct gttcagcact 360
agatgatatt cttgggggtg gagtgcctt aatgaaaaca acagaaattt gtgggtgcacc 420
aggtgttgga aaaacacaat tatgtatgca gttggcagta gatgtgcaga taccagaatg 480
ttttggagga gtggcagggt aagcagtttt tattgataca gagggaagtt ttatggttga 540
tagagtggta gaccttgcta ctgcctgcat tcagcacctt cagcttatag cagaaaaaca 600
caagggagag gaacaccgaa aagctttgga ggatttact cttgataata ttctttctca 660
tatttattat tttcgctgtc gtgactacac agagttactg gcacaagttt atcttcttcc 720
agatttcctt tcagaacact caaagggtcg actagtata gtggatggta ttgcttttcc 780
```


PF-0509 USN

```
atttcgtcat gacctagatg acctgtctct tcgtactcgg ttattaaatg gcctagccca 840
gcaaatgatc agccttgcaa ataatacacag attagctgta attttaacca atcagatgac 900
aacaagatt gatagaaatc aggccttgct tgctcctgca ttaggggaaa gttggggaca 960
tgctgctaca atacggctaa tctttcattg ggaccgaaag caaagggttg caacattgta 1020
caagtcaccc agccagaagg aatgcacagt actgtttcaa atcaaacctc agggatttag 1080
agatactgtt gttacttctg catgttcatt gcaaacagaa ggttccttga gcaccggaa 1140
acggtcacga gaccagagg aagaattata acccagaaac aaatctcaa gtgtacaaat 1200
ttattgatgt tgtgaaatca atgtgtacaa gtggacttgt taccttaaag tataaataaa 1260
cacactatgg catgaatgan aannnaannn naannaannn aaaaanaaan annnagnann 1320
cnagc 1325
```

<210> 82
<211> 1579
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2518753CB1

<220>
<221> unsure
<222> 1346-1347, 1351, 1356, 1362, 1368, 1374, 1381-1382, 1394-1395, 1399,
1416, 1424-1426, 1434-1435, 1440, 1446, 1449, 1454, 1460, 1466, 1468,
1477-1478, 1480-1481, 1485, 1488-1489, 1496-1501, 1504-1505, 1524, 1528,
1530, 1533, 1537-1539, 1545, 1562, 1571
<223> a, t, c, g, or other

```
<400> 82
tgcttcatgg atactgggtcc tatcatgctc tttgaggcta ttgaactcat caatacagca 60
aaggcccgca tctgcaagaa ctaatgcccc agcctccaaa ttccattctc ctgagtcctt 120
tacagcagtt accgtcagac tttgttctcc gcctttgtcc taatccacac cagcaggttg 180
agccgcagtt aaagtttccg agtccattcc gggagcggga gcccatcttg ctggctgccg 240
aggccctcgc tggaggagga gggtcagaac tcgggtgcag ccaatcgagg gcaacgctgc 300
tacttatcag agcagaatgg gctgtagttt agtgaaatag gaaagctgca aaacactgtg 360
gagtgtctcc gtgtaaataa aaagaggaaa aaagtctctc aagtcgcccgc tgcacgacgt 420
ctggccgggc ctggagcggg ggtctgcgct ctcccgcgcg gccgcgcgct ggactttatt 480
gtgccgcaac cagccccagt tcccattggt tgtgtttttt tcaaaatatg gcaaagggtt 540
aggtgaacaa tgtagtggtg ctggataacc cttctcctt ctacaaccgc ttccagttcg 600
agatcacctt cgagtgcacg gaggacctgt ctgaagactt ggaatggaaa attatctatg 660
tgggctctgc agaaagtga gaatacgatc aagttttaga ctctgtttta gtgggtcctg 720
ttcccgcagg aaggcatatg tttgtatttc aggctgatgc acctaacca ggactcattc 780
cagatgcaga tgcagtaggc gtaactgttg tgctaattac ttgtacctat cgaggacaag 840
aatttattag agttggctat tatgtaaata atgaatatac tgagacagaa ttaagggaaa 900
atccaccagt aaaaccagac ttttctaagc ttcaaaggaa tattttggca tctaattcca 960
gggtcacaag attccacatt aattgggaag ataacacaga aaaactggaa gatgcagaga 1020
gcagtaatcc aaatctacag tcaactcttt caacagatgc attaccttca gcatcaaagg 1080
gatgggtccac atcagaaaac tcaactaaatg tcatgttaga atcccacatg gactgcatgt 1140
gaccacctac catcccttta gtacaaatta agctattaaa aatacacaga actatttccc 1200
tgaaattccg taagtacata gtcaaaacac aatgtgaaga atttgtttaa aaacatcctg 1260
tagaaagttt ataagaaaac cagtatttga acaaattgtg gaatataaat acaactattt 1320
ttaagtaatt tttttctcta attcanntag ngaggngttt cnctagangt ggantaaatt 1380
nnaaggggagc gggnnccnc cagagggggt tccaangtct ttcnnngaag gggngggcan 1440
tggcgnggnt ccangaggtn cctttnngtt ggggggnnan nccnttnng tttgcnnnnn 1500
```


PF-0509 USN

```
ntcnncggg gccgggtcgg tttntaancn cngggannnt tggcntgggg ggaaaacccc 1560
cngggggggtt ncccccttt                                     1579
```

<210> 83

<211> 2641

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2709055CB1

<400> 83

```
ttcctttggg acatctgctg tgacacdtgc acatacctct cagagccaca tatectcgca 60
cagatttcgc acttccaaat caggaggcaa agaaagagaa gaaagatcca acaggtcgaa 120
aaacaaactt ggattttcag caatatgtat ttattaattc aaatgtgtta ccattctggc 180
cttcctgggt attctaagta ctttccatac ctagctctta tacatactat tattctcatg 240
gccagtagca acttttggtt caaatatccc aaaacatgct caaaagtaga acattctgtt 300
tcaatattag gaaagtgttt tgaatcccc tggacgacaa aagcgttgct tgagacagca 360
tgcgaaagct cagaggaaaa caagcagaga ataacagggtg ccagactct accaaagcat 420
gtttctacca gcagtgatga agggagcccc agtgccagta caccaatgat caataaaact 480
ggctttaaat tttcagctga gaagcctgtg attgaagttc ccagcatgac aatcctggat 540
aaaaaggatg gagagcaggc caaagccctg tttgagaaag tgaggaagtt ccgtgccccat 600
gtggaagata gtgacttgat ctataaaactc tatgtggtcc aaacagttat caaaacagcc 660
aagttcattt ttattctctg ctatacagcg aactttgtca acgcaatcag ctttgaacac 720
gtctgcaagc ccaaagttga gcatctgatt gggtatgagg tatttgagtg caccacaat 780
atggcttaca tgttgaaaaa gcttctcatc agttacatat ccattatttg tgtttatggc 840
tttatctgcc tctacactct cttctgggta ttcaggatac ctttgaagga atattctttc 900
gaaaaagtca gagaagagag cagttttagt gacattccag atgtcaaaaa cgattttgctg 960
ttccttcttc acatggtaga ccagtatgac cagctatatt ccaagcgttt tgggtgtgtt 1020
ttgtcagaag ttagtgaaaa taaacttagg gaaattagtt tgaaccatga gtggacattt 1080
gaaaaactca ggcagcacat ttcacgcaac gccaggaca agcaggagtt gcatctgttc 1140
atgctgtcgg ggggtgcccga tgctgtcttt gacctcacag acctggatgt gctaaagctt 1200
gaactaattc cagaagctaa aattcctgct aagatttctc aaatgactaa cctccaagag 1260
ctccacctct gccactgcc tgcaaaaagt gaacagactg cttttagctt tcttcgcgat 1320
cacttgagat gccttcacgt gaagttcact gatgtggctg aaattcctgc ctgggtgtat 1380
ttgtcagaaa accttcgaga gttgtactta ataggcaatt tgaactctga aaacaataag 1440
atgataggac ttgaatctct ccgagagttg cggcacctta agattctcca cgtgaagagc 1500
aatttgacca aagttccctc caacattaca gatgtggctc cacatcttac aaagttagtc 1560
attcataatg acggcactaa actcttggtg ctgaacagcc ttaagaaaat gatgaatgtc 1620
gctgagctgg aactccagaa ctgtgagcta gagagaatcc cacatgctat tttcagctc 1680
tctaatttac aggaactgga tttaaagtcc aataacattc gcacaattga ggaaatcatc 1740
agtttccagc atttaaaacg actgacttgt ttaaaattat ggcataacaa aattgttact 1800
attcctccct ctattacca tgtcaaaaac ttggagtcac tttatttctc taacaacaag 1860
ctcgaatcct taccagtggc agtatttagt ttacagaaac tcagatgctt agatgtgagc 1920
tacaacaaca tttcaatgat tccaatagaa ataggattgc ttcagaacct gcagcatttg 1980
catatcactg ggaacaaagt ggacattctg ccaaaacaat tgtttaaatg cataaagttg 2040
aggactttga atctgggaca gaactgcac acctcactcc cagagaaagt tggtcagctc 2100
tcccagctca ctgagctgga gctgaagggg aactgcttgg accgcctgcc agcccagctg 2160
ggccagtgtc ggatgctcaa gaaaagcggg cttgttgttg aagatcacct ttttgatacc 2220
ctgccactcg aagtcaaaga ggcattgaat caagacataa atattccctt tgcaaatggg 2280
atttaactaa agataatata tgcacagtga tgtgcaggaa caacttccta gattgcaagt 2340
gtcacgtac aagttattac aagataatgc attttaggag tagatacatc ttttaataa 2400
aaacagagag gatgcataga aggctgatag aagacataac tgaatgttca atgtttgtag 2460
```


PF-0509 USN

```

ggttttaagt cattcatttc caaatcattt ttttttttct tttggggaaa gggaaggaaa 2520
aattataatc actaatcttg gttcttttta aattgtttgt aacttggatg ctgccgctac 2580
tgaatgttta caaattgctt gcctgctaaa gtaaatgatt aaattgacat tttcttacta 2640
t                                                                                   2641

```

<210> 84

<211> 3963

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2724537CB1

<220>

<221> unsure

<222> 2230-2314, 3640-3790, 3878, 3885-3886, 3889, 3899, 3906, 3908, 3952

<223> a, t, c, g, or other

<400> 84

```

gctcgagggg gagagtcgca cggcagcggg gaaggtgtga gtcgtgaacg gcccgggtct 60
ccgccatggc ctctctactc gccaaaggac cctacctgca gagcctggcc aagaagatct 120
gtccccattc ggccccgga cagcaggcgc gcacgcgggc tggcaaaact caaggctcag 180
aaactgcagg gcccccaaaa aagaaaagga agaaaacaca aaagaaattc cggaagcgag 240
aagagaaggc tgctgagcac aaggccaagt ccttggggga gaaatctcca gcagcctctg 300
gggccaggag gcctgaggca gccaaagagg aagcagcttg ggcttccagc tcagcaggga 360
accctgcaga tggcctggcc actgagcctg agtctgtctt tgctctggat gttctgcgac 420
agcgactgca tgagaagatc caggaggccc ggggccaggg cagtgccaaag gagctgtccc 480
ctgccgcctt ggagaaaagg cggcggagaa agcaggaacg ggaccggaag aagaggaagc 540
gaaaggagct gcgggcgaaa gagaaggcca ggaaggctga ggaggccacg gaggccagg 600
aggtggtgga ggcaacccca gagggggcct gcacggagcc gcgggagccg cccgggctga 660
tcttcaataa ggtggaggtg agcgaagacg agccggccag caaggcgag cgcagaaaag 720
agaagaggca gaggtgaag gggaacctca cgccgctgac cgggaggaac taccggcagc 780
tgctggagcg cctgcaggca cggcagagcc ggctggacga gctgcgcggc caggatgagg 840
ggaaggcgca ggagctggag gcgaagatga agtggacca cctcctctac aaggcggagg 900
gcgtgaagat ccgtgacgac gaacgcctgc tgcaggaggc cctgaagcgc aaggagaagc 960
gcagggcgca gcggcagcgc cgggtgggaga agcgcacggc cggcgtggtg gagaagatgc 1020
agcagcgcca ggaccggcgg cggcagaacc tgcgcaggaa gaaggcggcc cgcgcgagc 1080
gccgcctgct cagagcccg cagaaggggc gcacccctgc gcaggacctg gagcgcgag 1140
gcctggtctg agtctttccc acctggggcc gccgtcttcc gtcctaggag actccaggac 1200
accctctgag tccttgacgc tggctctgtc ccaggatctc cacagacctc ggccctctcca 1260
tgtgagcggg acacagtggg gctctgctga gttgtgaggg cccagatcac agatcccatg 1320
tgagaaagag agagtttcag cgtcatcctt gaacgcagga tccgggacct tcagaccag 1380
ggaaaggggt agggagactg gggcctggtc tgctttcccg ggcctgaaag cttccccgag 1440
gtttgcaggg tcaggaggga ggaacggtgg ggggtggcag tcaactgctg ttccccactg 1500
cctgtgttcg caggagccac gggacagaag acggtggcct ctgctgccgg ggcacggtta 1560
gtccgcagct caccgaaca gaggacaacc ctgaggtgtg gcatatgggc acctggcact 1620
gggagtcggg ggagcacgtc caggcgtggt gcacccctgg gcagaacgcc atggctcctc 1680
cccgtctctt tggcttctgc ctgttgggt ctcattcctt tctgttcccc agtgccccgg 1740
ggcggcattt tactgctcag aatttgagg gagggagcag taccttcccc gagtccacgc 1800
atgtgagttg ggtcaagtgc attggaccta gggaaagaga aagaaagaat aaaagctgga 1860
gagagagtga agtgaatgca agatacaaag tgggatggaa gaattaaatc cagagttcca 1920
ggcaatcaaa atgagtgcag gttgaaagaa aacaggtgaa ttttagtggc atatggatga 1980
taaagctgta aataaaattc ttttgatgaa actctccggg tacgagacaa agactgtaac 2040

```



```

tgaacaggag ctggtgtgac tgttaccaga cagaggcaac tgatgaaaaa gccctgtgaa 2100
agataggatg tgagggtgagc atgagcttga gctgagagac agacacaaca gtatctgaaa 2160
agaatacata ctctttccat gcataatatg aacatggatg gaaactgacc acctactttg 2220
tccagaaaaa nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2280
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnaacata gccctaata gtatgtgcat 2340
ctacagataa atagtgccat ttatacacac atacgctgta tgtctgtatt tttaaagcta 2400
aagaaaaata agcatgcagc ttaagtggga acaactcaaa gtaaatggaa gaaaaatctc 2460
caaaactgac taaaagtaat agaaagcctg agttgtaatc actgatgaaa ttgagtcagt 2520
agttaagaat gttcccctag acggttttac agggaagttc cacgatatag agaacaggta 2580
attccagacg tagacaaatt ctaacagaat caattgagag aacacttcat tcgtgaactt 2640
agctttgata ccaaaactag gtaagagaaa ggggaagttac caaatacctg tgggcggcaa 2700
gccacccagg caccgaggca agagacagag gacacgagct gttccagtat aataaaatat 2760
aaaacaagaa tagttatacc agatatagat cttagatatg attatatatg aatatcatta 2820
atcattagtt tgtagcaatt actctttatt ccaatattat aataatcctc actctacaat 2880
cataacctag gaaaaaccag gccatacaga gataggagct gaggggacat agtgagggtgt 2940
gaccagaaga caagagtgcg agccttctgt tatgcccgga cagggccacc agagggctcc 3000
ttggtctagc ggtgacgcca gcatctggga agacacctgt tgccaagccc accgtggtct 3060
agctgtagcg ttagtgtcaa ggaaaaacac ccgctactta gcagaccagg aaagggagtg 3120
tacagtgaga tcaggatgag ggtggtgagg ttggtgatcag ggggacccat gcttctgtctc 3180
aggggggttg cagaagccag caaggcttgg ggtttccctt gtttgagcgc ctccaagttg 3240
agagtgcaga ggagtgtgag atgcgtgtga aaatgcaaac ttggctctcc ctggctggag 3300
gctggcattg ggtgagtctc tggtaggacc aggccatgta tactttttaa gcttttttat 3360
tcttgaaaaag ttcaaagata tacaagata gactatgcag gataatgagc cccacatac 3420
tccgcatctc ttgtctgtaa ttatcagctc gtggctacct ctacctctcc cctctacctc 3480
ttgtctcatc tctacctctc cccctgacct ctgcctctgg gtcattttgc agcaaatecc 3540
aaatgcctat atcatttatc ctaaataatt cataaacatt ccactatgta gctctgaaag 3600
ataaggacgc ttacaacaca actgcaatat ctttttggnn nnnnnnnnnn nnnnnnnnnn 3660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3780
nnnnnnnnnn cacaccttta caaaattaat aattccaatc atcctatagt tgatcagtgt 3840
tcaaatttcc aattgcctca taaaaaggat attttctnaa cattnngtnt gtcgcaatng 3900
gttgcnngta agtcacctaa atatcttctc ttttgtataa ctttttagtg cngtaaaata 3960
ggt 3963

```

<210> 85

<211> 1093

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 025818CB1

<400> 85

```

tggtgctgat aacagcgga tccccgtct acctctctcc ttggtcctgg aacagcgcta 60
ctgatcacca agtagccaca aaatataata aaccctcagc acttgctcag tagttttgtg 120
aaagtctcaa gtaaaagaga cacaaacaaa aaattctttt tcgtgaagaa ctccaaaaat 180
aaaattctct agagataaaa aaaaaaaaaa aaaaaggaa aatgccagct gatataatgg 240
agaaaaattc ctctgccccg gtggctgcta cccagccag tgtcaacacg acaccggata 300
aaccaaagac agcatctgag cacagaaagt catcaaagcc tattatggag aaaagacgaa 360
gagcaagaat aaatgaaagt ctgagccagc tgaaaacact gattttggat gctctgaaga 420
aagatagctc gcggcattcc aagctggaga aggcggacat tctggaaatg acagtgaagc 480
acctccggaa cctgcagcgg gcgcagatga cggtgcgct gagcacagac ccaagtgtgc 540
tggggaagta ccgagccggc ttcagcgagt gcatgaacga ggtgaccgc ttctgtcat 600

```


PF-0509 USN

```
ccccgtctac accagcaaca gcggcacctc cgtgggcccc aacgcagtgt caccttccag 660
cggccccctcg cttacggcgg actccatgtg gaggccgtgg cggaactgag ggggctcagg 720
ccaccctcc tcctaaactc cccaaccac ctctcttccc tccggactct aaacaggaac 780
ttgaatactg ggagagaaga ggactttttt gattaagtgg ttactttgtg tttttttaat 840
ttctaagaag ttactttttg tagagagagc tgtattaagt gactgaccat gcactatatt 900
tgtatatatt ttatatgttc atattggatt gcgcctttgt attataaaag ctcagatgac 960
atttcgtttt ttacacgaga tttctttttt atgtgatgcc aaagatgttt gaaaatgctc 1020
ttaaaatatt ttcctttggg gaagttttatt tgagaaaata taataaaaga aaaaagtaaa 1080
ggcaaaaaaaa aaa 1093
```

<210> 86

<211> 2077

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 438283CB1

<400> 86

```
atggcgtgga ctgaaagtgg cacggcggcg tgtgcgtttc ctagttgtct ggtgctgcta 60
tataggggggc gtggggtccc cacagacctg caggttccgg cccctctttt ctcaaccag 120
agcaaatgga aacgtccggg atttccaaag actcatgtta cgtgaggaag ccaccaagaa 180
gagcaaagaa aaggagccag ggatggctct tcctcaggga cgcttggtt tcagggatgt 240
ggctatagag ttctctttgg aggagtggaa atgcctgaac cctgcacaga gggctttata 300
cagggtctgt atgttgagga actacaggaa cctggagttt gtggatagct ctttaaaatc 360
catgatggag ttctcatcaa ccaggcacag taatacagga gaagtgatcc acacagggac 420
gttgcaaaga cataaaagtc atcacattgg agatttttgc ttcccagaaa tgaagaaaga 480
tattcatcac tttgagtttc agtggcaaga agttgaaaga aatggccatg aagcacccat 540
gacaaaaatc aaaaagttag ctggtagtac agaccgaagt gatcacaggc atgctggaaa 600
caagcctatt aaagatcagc ttggattaag ctttcattcg catctgcctg aactccacat 660
gtttcagact aaagggaaaa ttagcaacca attggacaag tctatcagtg gtgttctctc 720
agcttcagaa tcccaaagaa tttctgttag gctcaaaact catatttcta ataagtatgg 780
gaagaatttc ctccattctt cattcacaca aatacaggaa atatgcatga gagaaaaacc 840
ttgccaaagt aatgagtgtg gcaaagcctt taattatagc tcactcttaa ggagacacca 900
cataacccat tcaagagaga gagaatataa atgtgatgta tgtggcaaga tctttaatca 960
gaagcaatac attgtatatc atcacagatg tcacactggg gagaaaactt acaagtgtaa 1020
tgagtgtggg aagaccttca ctcagatgtc atcccttgta tgccatcgta gacttcatac 1080
tggagagaaa ccttacaagt gtaatgagtg tggcaagacc ttcagtgaga agtcacccct 1140
tagatgccat cgtagacttc atactggaga gaaaccttac aagtgtaatg agtgtggcaa 1200
gacttttggt cgaaattcag cccttgtaat tcataaggca attcatactg gagagaaacc 1260
ttacaagtgt aatgagtgtg gcaagacctt cagtcagaaa tcatcccttc aatgccatca 1320
tatacttcac actggagaga aaccttacaa atgtgaagaa tgtgacaatg tttacattcg 1380
cagatcacac cttgaaagac ataggaaaat tcatactgga gagggatcat acaaatgtaa 1440
ggtttgtgac aaggctttcc ggagtgattc atgccttgca aaccatacga gagttcatac 1500
tggagagaaa ccttacaagt gtaataaatg tgcgaagggt tttaatcaaa aaggaatcct 1560
tgcacaacat cagagagttc atactggaga gaaaccttac aagtgtaatg aatgtggcaa 1620
ggtttttaat caaaaagcaa gccttgcaaa acatcagaga gttcatactg cagagaaacc 1680
ttacaagtgt aatgagtgtg gcaaagcctt tactggacag tcaacactta ttcaccatca 1740
agcaatccat ggggttaggg aaactttaca aatgtaatga ttgtcacaaa gtcttcagta 1800
atgtacaac cattgcaaat cattacagaa tccatattga agagagatct acaagtgtaa 1860
taaagtggc aaatttttca gacgtcattc ataacttgta gttcctcagt gaactcatac 1920
tggagagaaa ccttacaat atcatgactg tgacaagggtc ttcagtcaag cttcatccta 1980
tgcaaaacat agaatgtcta caggagagaa acctcacaag tgtgatgatt gtgggcaagc 2040
```


tttactttcat gttcacaccg tcttagacat cagagaa

2077

<210> 87

<211> 2358

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 619699CB1

<400> 87

```

ggacttttact ggacccaact cagagaaacc tctacagaga tgtgatgctg gagaactaca 60
agaatttggc cacagtagga tatcagctct tcaaaccag tctgatctct tggctggaac 120
aagaagagtc taggacagtg cagagaggtg atttccaagc ttcagaatgg aaagtgcaac 180
ttaaaccacaa agagtttagcc cttcagcagg atgttttggg ggagccaacc tccagtggga 240
ttcaaatgat aggaagccac aacggagggg aggtcagtga tgtaagcaa tgtggagatg 300
tctccagtga acactcatgc cttaagacac atgtgagaac tcaaaatagt gagaacacat 360
ttgagtgtta tctgtatgga gtagacttcc ttactctgca caagaaaacc tctactggag 420
agcaacgttc tgtatttagt cagtgtggaa aagccttcag cctgaacca gatgttgttt 480
gccagagaac gtgcacagga gagaaagctt ttgattgcag tgactctggg aaatccttca 540
ttaatcattc acaccttcag ggacatttaa gaactcaca tggagaaagt ctccatgaat 600
ggaaggaatg tgggagaggc tttatttact ccacagacct tgctgtgctg atacaaactc 660
acaggtcaga aaaaccctac aaatgtaagg aatgtggaaa aggatttaga tattctgcat 720
accttaatat tcacatggga acccactctg gagacaatcc ctatgagtgt aaggagtgtg 780
ggaaagcctt caccaggtct tgtcaactta ctcagcacag aaaaactcac actggagaga 840
aaccttataa atgtaaggat tgtgggagag ccttctactg ttctcttgc ttaagtcaac 900
atatgaaaat ccatgtgggt gagaagcctt atgaatgcaa ggaatgtggg atagccttca 960
ctagatcttc tcaacttact gaacatttaa aaactcacac tgcaaaggat ccctttgaat 1020
gtaaggatatg tggaaaatcc tttagaaatt cctcatgcct cagtgatcac tttcgaattc 1080
acactggaat aaaaccctat aaatgtaagg attgtgggaa agccttctact cagaactcag 1140
accttactaa gcatgcacga actcacagtg gagagaggcc ctatgaatgt aaggaaatgtg 1200
gaaaggcctt tgccagatcc tctcgctta gtgaacatac aagaactcac actggagaga 1260
agccttttga atgtgtcaaa tgtgggaaag cctttgctat ttcttcaaat cttagtggac 1320
atttgagaat tcacactgga gagaagccct ttgagtgcct ggaatgtggt aaagcattta 1380
cgcattcttc cagtcttaat aatcacatgc ggaccacag cgccaaaaaa ccattcacgt 1440
gtatggaatg tggcaaagcc tttaagtttc ccacgtgtgt taaccttcac atgcggatcc 1500
acactggaga aaaaccctac aaatgtaaac agtgtgggaa atccttcagt tactccaatt 1560
cgtttcagtt acatgaacga actcacactg gagagaaacc ctatgaatgt aaggagtgcg 1620
ggaaagcctt cagttcttcc agttccttcc gaaatcatga aagaaggcat gcggatgaga 1680
gactgtcagc ataaggaatg tgggaaaacc taaagggtgtc cctgttctct ctgaagacat 1740
gaaaactcac tggggagaaa ccctatgaat gtaaaaatgt ggaagcaact ttgtatctca 1800
ggtcttaatg aacacatatg aattcacagt ggagaagacc ctgcatcagg gaatgtggaa 1860
atgactttgc tgaattctca agccttacca aacacatcag aaatctcact ggagagaaac 1920
tgtatgaatg tagagaatct gggaatacct ttctgaatcc caciaacctt aatgtgtgta 1980
tgtgaactca cattggagag aaaccctgca atttaaatgg tatggtctgg atgatgcccc 2040
actccatatt tgtaagccct aagtcctagt tccttacact ataactgtat ttggacatag 2100
ggttttcaaa caggtgagta acttcaaatg aggttgttgg gttcgatccc taatctgaca 2160
tactgggtgt ccctataagg gaaactgaag gaaggatata catggagaag actgtgtgga 2220
tccaccagaa gatggccatc tacaagccaa ggacagagac ctggaacaga tgctttcatt 2280
atggcctcca gaggaacca accctgtctc caccttgata ttgcacttcc aggctccaga 2340
actgtgaggc aataaata
2358

```

<210> 88

PF-0509 USN

<211> 1978

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 693452CB1

<220>

<221> unsure

<222> 1429

<223> a, t, c, g, or other

<400> 88

```
gcagcgggctg ccacggagct cgtagctgca gctttggagg agtaagcggc gtggtagcga 60
aggctcgccga acccgcttgg ctagccggcg agttgagtg cgactctttt gaaacagatg 120
gtcaccatgt ttagatatta gcagtcctgt atgtgcatgt ctgcatttga aaatggaaga 180
gggaaacaac aatgaagagg taattcactt gaacaacttt cactgccatc ggggacaaga 240
ctttgttaatt ttcttctgga aaaccagat tatccaaaga gagaagacag aatcattata 300
aatcccagta gcagtctgct ggccagccaa gatgagacaa agttgcctaa aataagactt 360
ttttgactat tctaaattga ctctcttga ccagcactgc ttcattcaag ctgctgacct 420
cctcatggcc gacttcaaag tgctcagtag tcaggacatc aagtgggccc tgcacgagct 480
caaaggacac tatgcaatca cccgaaaggc cttgtctgat gccattaaaa aatggcagga 540
gctgtcacca gaaaccagtg gaaaaaggaa gaagagaaaa caaatgaacc agtattctta 600
cattgatattc aagtttgaac aaggtgacat aaaaatagaa aagaggatgt tctttcttga 660
aaataagcga cgacattgta ggtcctatga ccgacgtgct ctcttccag ctgtgcaaca 720
agagcaggag ttctatgagc agaaaatcaa agagatggca gagcatgaag actttttgct 780
tgccctacag atgaatgaag aacagtatca aaaggatggc cagctgattg agtgctcgctg 840
ctgctatggg gaatttccat tcgaggagct gacgcagtgc gcagatgctc acttgttctg 900
caaagagtgt ctcatcagat atgcccaaga ggcagtcttt ggatctggaa agttggagct 960
cagctgcatg gaaggcagct gcacgtgttc gttcccaacc agtgagctgg agaaggtgct 1020
ccccagacc atcctgtata agtactatga gcgaaaagcc gaggaggagg ttgcccagc 1080
ctacgccgac gagcttgtca ggtgccgctc ctgtagcttt ccggctctgt tggacagtga 1140
tgtgaagagg ttgagctgtc ctaatcctca ctgccgaaag gaaacctgta ggaagtgtca 1200
gggactctgg aaagaacata atggcctcac ctgtgaagag ctggctgaaa aagacgacat 1260
caagtaccgt acctctattg aagaaaaaat gactgtgcc cgcattagaa aatgccacaa 1320
gtgtgggact ggcctcatca aatctgaagg ctgcaaccgc atgtcttgcc gctgtggtgc 1380
ccagatgtgc tacctctgtc gagtttctat taatggatat gaccatttnt gccaacaatc 1440
ccggttaaca ggggcccctt tccaggaggt gttcaagatg ctttctatgg acagactcca 1500
atgtaagtag acacatggct gcctatttct ttataggagg gaaataggaa tatattttta 1560
tgcagatatt ttgataaacg aacataattg ccttggagga gatatggaaa tcaaaggctt 1620
taaccaagga aaaatttgga acttattaca agtactcaa aggtggtaaa ggagaacgcc 1680
taacaagtta aaggaaaatc cttaaacttc aaggaaaaaa ctttcgccct tgaaaacccg 1740
gggagaagag gggcttaaaa ggggtgtgaa gcggaaaagg ggtccaaggg ggggggggtg 1800
gtatattatt tttgtttcta tgggcatgaa acatgggtaa atggaaaaat tgaactgggg 1860
acaacagggt tctaggaat aggtggatat aggtgatggg atttaaggca tgggtggggag 1920
ttggagataa agctggaggt gaaagaaagg ttgggggggg ggggaggaag tgtttttt 1978
```

<210> 89

<211> 2084

<212> DNA

<213> Homo sapiens

<220>

PF-0509 USN

<221> misc_feature

<223> Incyte ID No: 839651CB1

<400> 89

```
cgtgggggcg cacagcctct ggtgcacatg gcttcctccc cggcggtgga cgtgtcctgc 60
agggcgccggg agaagcgggc gcagctggac gcgcgcgcga gcaagtgccg catccgcctg 120
ggcgggccaca tggagcagtg gtgcctcctc aaggagcggc tgggcttctc cctgcactcg 180
cagctcgcca agttcctgtt ggaccggtag acttcttcag gctgtgtcct ctgtgcaggt 240
aggtagggga tggcaggggg tgagagccag agggaagagg gaccacaggg tgaccagaa 300
acaccctcct ttcaaaggga gccctgagta agtttgggaa ggggtggggtg agttggggag 360
cacagggtag tttgatggag gcaacctctg ggtggggaag ggagcaatgt ctcaggatct 420
agtgtgtcta ggttctgaag aatgataaat tggactgggg ctgaggttgc cctgggggtt 480
gagggaaacag ggctccctgg gtatggctct ccagggtaaag aggaggagac ttcccagttc 540
agcctgactg cttccccccac ccctccaggt cctgagcctt tgcctccaaa aggtctgcag 600
tatctgggtgc tcttgtctca tgcccacagc cgagagtgcg gcctgggtgc cgggcttcgg 660
gggcctggcg gccaaagtgg ggggcttgtg tgggagtgcg cagcaggcca taccttctcc 720
tggggaccct ctttgagccc tacaccttca gaggcacca agccagcctc ccttccacat 780
actactcgga gaagtgggtg ttccgaggcc acgagtgggc aggagcttgc agatttggaa 840
tctgagcatg atgagaggac tcaagaggcc aggttgccca gtagtgagcc tgatgcccc 900
agactactgc cttcccctgt cacctgcaca cctaaagagg gggagacacc accagcccc 960
gcagcactct ccagtcctct tgctgtgcg gccttgtcag catcctcatt gagtctcaga 1020
gtcctccac ctgcagaagt cagggtgcag ccacagctca gcaggacccc tcaagcgcc 1080
cagcagactg aggccctggc caggtaacct gatggctgag acagaaaggg caggggcgtc 1140
ctgggatgtg gccctccctc gaggccctct gctccctctt tgctgccgt agcactggga 1200
gtcaggccca gtctgtctca accccggcct gggatgagga cactgcacaa attggcccca 1260
agagaattag gaaagctgcc aaaagagagc tgatgccttg tgacttccct ggctgtggaa 1320
ggatcttctc caaccggcag tatttgaatc accacaaaaa gtaccagcac atccaccaga 1380
agtcttctc ctgcccagag ccagcctgtg ggaagtctt caactttaag aaacacctga 1440
aggagcacat gaagctgcac agtgacaccc gggactacat ctgtgagttc tgcgcccgg 1500
ctttccgcac tagcagcaac cttgtcatcc acagacgtat ccacactgga gaaaaacccc 1560
tgcagtgtga gatatgcggg ttacctgcc gccagaagge ttccctgaac tggcaccagc 1620
gcaagcatgc agagacgggtg gctgccttgc gcttcccctg tgaattctgc ggcaagcgt 1680
ttgagaagcc agacagtgtt gcagcccacc gtagcaaaag tcaccagcc ctgcttctag 1740
cccctcaaga gtcaccaggt ggtcccctag agccctgtcc cagcatctct gccctgggc 1800
ctctgggatc cagcgagggg tccaggccct ctgcatctcc tcaggctcca accctgcttc 1860
ctcagcaatg agctctcctc cagctttggc tttgggaagc cagactccag ggactgaaa 1920
ggagcaacaa ggagagggtc tgcttgagaa atgccagatg cttgggtccc aggaataag 1980
gcgacagatg gcaggggtgg gcagagactg ggctgtagg gagctggact actttagtct 2040
tcctaaagga caaaataaac agtattttat gcaaaaaaaa aaaa 2084
```

<210> 90

<211> 2024

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1253545CB1

<400> 90

```
tgaaattatt gctattaaca acaccaagtt ttcataatac gattcaaaag agtgggagga 60
agccatggct aaggctcaag aaactggaca cctagtgatg gatgtgaggc gctatggaaa 120
ggctgggttca cctgaaacaa agtggattga tgcaacttct ggaatttaca actcagaaaa 180
atcttcaaat ctatctgtaa caactgattt ctccgaaagc cttcagagtt ctaatatgga 240
```



```

atccaaagaa atcaatggaa ttcatgatga aagcaatgct tttgaatcaa aagcatctga 300
atccatttct ttgaaaaact taaaaaggcg atcacaattt tttgaacaag gaagctctga 360
ttcgggtggtt cctgatcttc cagttccaac catcagtgcc ccgagtcgct ggggtgtgga 420
tcaagaggag gagcgggaagc ggaggagag gtggcagaag gagcaggacc gcctactgca 480
ggaaaaatat caacgtgagc aggagaaact gagggagaag tggcaaaggg ccaaacagga 540
ggcagagaga gagaattcca agtacttgga tgaggaaact atggctcctaa gctcaaacag 600
catgtctctg accacacggg agccctctct tgccacctgg gaagctacct ggagtgaagg 660
gtccaagtct tcagacagag aaggaacccg agcaggagaa gaggagagga gacagccaca 720
agaggaagtt gttcatgagg accaaggaag gaagccgcag gatcagcttg ttattgagag 780
agagaggaaa tgggagcaac agcttcagga agagcaagag caaaagcggc ttcaggctga 840
ggctgaggag cagaagcgct ctgaggagga gcagaagcgc caggcagaga tagagcggga 900
aacatcagtc agaataacc agtacaggag gcctgttgat tcctatgata taccaaagac 960
agaagaagca tcttcaggtt ttcttcctgg tgacaggaat aaatccagat ctactactga 1020
actggatgat tactccacaa ataaaaatgg aaacaataaa tatttagacc aaattgggaa 1080
cacgacctct tcacagagga gatccaagaa agaacaagta ccatcaggag cagaattgga 1140
gaggcaacaa atccttcagg aaatgaggaa gagaacaccc ctccacaatg acaacagctg 1200
gatccgacag cgcagtgcca gtgtcaacaa agagcctgtt agtcttcctg ggatcatgag 1260
aagaggcgaa tcttttagata acctggactc cccccgatcc aattcttgga gacagcctcc 1320
ttggctcaat cagcccacag gattctatgc ttcttcctct gtgcaagact ttagtcgccc 1380
acaacctcag ctggtctcca catcaaaccg tgcctacatg cggaaccctt cctccagcgt 1440
gccccacctc tcagctggct ccgtgaagac ctcaccaca ggtgtggcca ccacacagtc 1500
ccccaccccg agaagccatt cccttcagc ttcacagtca ggctctcagc tgcgtaacag 1560
gtcagtcagc gggaagcgca tatgtctcta ctgcaataac attctgggca aaggagccgc 1620
catgatcatc gagtccctgg gtctttgtta tcatttgcag tgttttaagt gtgttgctg 1680
tgagtgtgac ctcgagggct ctctctcagg agctgaagtc aggatcagaa accaccaact 1740
gtactgcaac gactgctatc tcagattcaa atctggacgg ccaaccgcca tgtgatgtaa 1800
gcctccatac gaaagcactg ttgcagatag aagaagaggt ggttgctgct catgtagatc 1860
tataaatatg tggtgtatgt cttttttgct ttttttttaa aaaaaagaat aacttttttt 1920
gcctcttttag attacattga agcattgtag tcctggtaag accagtattt ttggtgttta 1980
tttataaggc aattgtgggt gggggaaaag tgcagaattt accc 2024

```

<210> 91

<211> 3518

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1425691CB1

<400> 91

```

ctctctcggc ccggccatct tgtgggaaga gctgaagcag gcgctcttgg ctcggcgcgg 60
cccgtgcaa tccgtggagg aacgcgccgc cgagccacca tcatgcctgg gcacttacag 120
gaaggcttcg gctgcgtggt caccaaccga ttcgaccagt tatttgacga cgaatcggac 180
cccttcgagg tgctgaaggc agcagagaac aagaaaaaag aagccggcgg gggcggcgtt 240
gggggcccctg gggccaagag cgcagctcag gccgcggccc agaccaactc caacgcggca 300
ggcaaacagc tgcgcaagga gtcccagaaa gaccgcaaga acccgctgcc cccagcgtt 360
ggcgtgggtg acaagaaaga ggagacgcag ccgcccgtgg cgcttaagaa agaaggaata 420
agacgagttg gaagaagacc tgatcaacaa cttcagggtg aagggaaaat aattgataga 480
agaccagaaa ggcgaccacc tcgtgaacga agattcgaaa agccacttga agaaaagggt 540
gaaggaggcg aattttcagt tgatagaccg attattgacc gacctattcg aggtcgtggt 600
ggtcttgga gaggtcgagg gggccgtgga cgtggaatgg gccgaggaga tggatttgat 660
tctcgtggca aacgtgaatt tgatagcat agtggaaagt atagatcttc tttttcacat 720
tacagtggcc tgaagcacga ggacaaacgt ggaggtagcg gatctcaca ctgggggaact 780

```



```

gtcaaagacg aattaacaga gtcccccaaa tacattcaga aacaaatatac ttataattac 840
agtgacttgg atcaatcaaa tgtgactgag gaaacacctg aaggtgaaga acatcatcca 900
gtggcagaca ctgaaaataa ggagaatgaa gttgaagagg taaaagagga ggggtccaaa 960
gagatgactt tggatgagtg gaaggctatt caaaataagg accgggcaaa agtagaattt 1020
aatatccgaa aaccaaatga aggtgctgat gggcagtggg agaagggtt tgttcttcat 1080
aaatcaaaga gtgaagagcg tcatgctgaa gattcggtta tggaccatca tttccggaag 1140
ccagcaaatg atataacgtc tcagctggag atcaattttg gagaccttgg cgcgccagga 1200
cgtggcggca ggggaggacg aggtggacgt gggcgtggtg ggcgccccaa cgtggcagc 1260
aggaccgaca agtcaagtgc ttctgctcct gatgtggatg acccagaggc attcccagct 1320
ctggcttaac tggatgccat aagacaaccc tggttccttt gtgaaccctt ctgttcaaag 1380
cttttgcatt cttaaggatt ccaaacgact aagaaattaa aaaaaaaaaa actgtcattc 1440
ataccattca cacctaaaga ctgaatttta tctgttttaa aaatgaactt cccccgtac 1500
acagaagtaa caaatatggt agtcagtttt gtatttagaa atgtattggt agcagggtatg 1560
ttttcataat tttcagagat tatgcattct tcatgaatac ttttgtattg ctgcttgcaa 1620
atatgcattt ccaaacttga aatataggtg tgaacagtgt gtaccagttt aaagctttca 1680
cttcatttgt gttttttaat taaggattta gaagttcccc caattacaaa ctggttttaa 1740
atattggaca tactggtttt aatacctgct ttgcatattc acacatgggc aactgggaca 1800
tggtaaactt tgatttgtca aattttatgc tgtgtggaat actaactata tgtattttaa 1860
cttagtttta atattttcat ttttggggaa aaatcttttt tcaacttctca tgatagctgt 1920
tatatatata tgctaaatct ttatatacag aaatatcagt acttgaacaa attcaaagca 1980
catttggttt attaaccttt gctccttgca tggctcatta ggttcaaatt ataactgatt 2040
tacattttca gctatattta ctttttaaat gcttgagttt cccattttta aatctaaact 2100
agacatctta attggtgaaa gttgtttaaa ctacttattg ttggtaggca catttgttca 2160
agtgaagtag ttttataggt atgggttttt tctccccctt caccagggtg ggtggaataa 2220
gttgatttgg ccaatgtgta atatttaaac tgttctgtaa aataagtgtc tggccatttg 2280
gtatgatttc tgtgtgtgaa aggtcccaaa atcaaaatgg tacatccata atcagccacc 2340
atttaaccct tccttgttct aaaacaaaaa ccaaagggcg ctggttggtg ggggtgagggtg 2400
ggggagtatt ttaatttttg gaatttggga agcagacagc tttactttgt aagggttgga 2460
cagcagcact atacatgaaa tataaaccaa aaacctttac tgtttctaaa tttcctagat 2520
tgctattatt tgggtgtaag ttgagtattc cacagaaagt ggtaattatc tctctctctt 2580
cctccattag aaaattaggt aaataatgga ttcctataat gggagcatca ccacttatta 2640
aaacacacat agaatgatga attaaaaaag ttttctagga ttgtctttta ttctgccaca 2700
tttattgata aacagtgaag gaatttttaa aaaattttta agaattgttt gtcacgtcat 2760
ttttagaaat gttctacctg tatatggtaa tgtccagttt taaaaatatt ggacatcttc 2820
aatcttaaac atttctattt agctgattgg ttctcacata tacttctaaa agaaactttt 2880
atgttataag agttactttt tggataagat ttattaatct cagttaccta ctattctgac 2940
attttaggaa ggaggtaatt gtttttaatg atggataaac ttgtgctggt gttttggatc 3000
ttatgatgct gagcatgttc tgcactgggt ctaatgtcta atataatttt atatttacac 3060
acatacgtgc taccagaga ttaatttagt ccatatgaac tattgaccca ttgttcattg 3120
agacagcaac atacgcactc cttaatcagt gtgttttagac ttttcaagta tctaactcat 3180
ttccaaacat gtaccatgtt ttataaacct cttgatttcc agcaacatac tatagaaaac 3240
acctgctact caaaacacaa cttctcagt tcatccattg ctgtcgtgag agacaacata 3300
gcaatatctg gtatgttgca agctttcaag atagcctgaa cttaaaaagt tgggtgcatta 3360
gttgtatctg atggatataa atttgcctcc tagttcactt tgtgtcaaga gctaaaactg 3420
tgaacctaac tttctcttat tgggtgggtaa taactgaaaa taaagattta ttttcatgct 3480
cacttcttaa aagtcataaa aacaatcaaa aaaaaaaa 3518

```

<210> 92

<211> 2741

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1484257CB1

<400> 92

```

ttccgccccga ctctaacatg gcggcgccct ttgtctgtctc tggagtgccg tccccggcct 60
tctcgcgggcc gtgatgcacc tccctctgtcg gtgggggtccg ggacatggca ggtaatgagc 120
cggacgagggg gagccaagct ggagttttaca caggcaaact gtcagaaaag agtagcctgg 180
gctgtcttga aatctgagcc atggactttc cccagcacag ccagcatgtc ttggaacagc 240
tgaaccagca gcggcagctg gggcttctct gtgactgcac ctttgtgggtg gacgggtgtc 300
actttaaggc tcataaagca gtgctggcgg cctgcagcga gtacttcaag atgctcttcg 360
tggaccagaa ggacgtggtg cacctggaca tcagtaacgc ggcaggcctg gggcaggtgc 420
tggagtttat gtacacggcc aagctgagcc tgagccctga gaacgtggat gatgtgctgg 480
ccgtggccac tttcctccaa atgcaggaca tcatcacggc ctgccatgcc ctcaagtcac 540
ttgctgagcc ggctaccagc cctgggggaa atgcggaggc cttggcacag aaggtctgcc 600
ctgttccatc tccaggaggg gacaagagag ccaaagagga gaaggtggcc accagcacgc 660
tgagcaggct ggagcaggca ggacgcagca caccatagg cccagcagg gacctcaagg 720
aggagcgcgg cggtcaggcc cagagtgcgg ccagcgggtg agagcagaca gagaaagccg 780
atgcgccccg ggagccgccc cctgtggagc tcaagccaga cccacagagt ggcattggctg 840
ctgcagaagc tgaggccgct ttgtccgaga gttcggagca agaaatggag gtggagcccc 900
cccggaaagg ggaagaggag caaaaggagc aagaggagca agaggaggag ggcgcagggc 960
cagctgaggt caaggaggag ggttccagc tggagaacgg agaggcccc gaggagaacg 1020
agaatgagga gtcagcgggc acagactcgg ggcagagct cggtccgag gcccggggcc 1080
tgcgctcagg caccacggc gaccgcagc agtccaaggc ctacggctcc gtcattccaca 1140
agtgcgagga ctgtgggaag gagtccagc acacgggaa cttcaagcgg cacatccgca 1200
tccacacggg ggagaagccc ttctcgtgcc gggagtgcag caaggccttt tccgaccggg 1260
ccgctgtcga ggcccatgag aagacgcaca gccctctgaa gccctacggc tgcgaggagt 1320
gcgggaagag ctaccgcctc atcagcctgc tgaacctgca caagaagcgg cactcgggcg 1380
aggcgcgcta ccgctgcgag gactgcggca agctcttcac cacctcgggc aacctcaagc 1440
gccaccagct ggtgcacagc ggcgagaagc cctaccagtg cgactactgc ggccgctcct 1500
tctccgacct cacttccaag atgcgccacc tggagacca cgacacggac aaggagcaca 1560
agtgccca cactgcacaag aagttcaacc aggtagggaa cctgaaggcc cacctgaaga 1620
tccacatcgc tgacggggccc ctcaagtgcc gagagtgtgg gaagcagttc accacctcag 1680
ggaacctgaa gcggcacctt cggatccaca gcggggagaa gccctacgtg tgcattccact 1740
gccagcgaca gtttgcagac cccggcgctc tgcagcggca cgtccgcatt cacacagggtg 1800
agaagccatg ccagtgtgtg atgtgcggta aggccttcac ccaggccagc tccctcatcg 1860
cccacgtgcg ccagcacacc ggggagaagc cctacgtctg cgagcgtgc ggcaagagat 1920
tcgtccagtc cagccagttg gccaatcata ttcgccacca cgacaacatc cgccacaca 1980
agtgcagcgt gtgcagcaag gccttcgtga acgtggggga cctgtccaag cacatcatca 2040
ttcacactgg agagaagcct tacctgtgtg ataagtgtgg gcgtggcttc aaccgggtag 2100
acaacctgcg ctccccagctg aagaccgtgc accagggcaa ggcaggcatc aagatcctgg 2160
agcccgagga gggcagtgag gtcagcgtgg tcaactgtga tgacatggtc acgtgggcta 2220
ccgaggcact ggcagcgaca gccgtcactc agctcacagt ggtgccgggtg ggagctgcag 2280
tgacagccga tgagacggaa gtcctgaagg ccgagatcag caaagctgtg aagcaagtgc 2340
aggaagaaga cccaacact cacatcctct acgcctgtga ctctgtggg gacaagtttc 2400
tggatgccaa cagcctggct cagcatgtgc gaatccacac agcccaggca ctggtcatgt 2460
tccagacaga cgcggacttc tatcagcagt atgggccagg tggcacgtgg cctgccgggc 2520
aggtgctgca ggctggggag ctggtcttcc gccctcgcga cggggctgag ggccagcccg 2580
cactggcaga gacctccct acagctcctg aatgtcccc gcctgccgag tgagctggcg 2640
gcccttctga ctgtttatatt aaggatggat ggcaccctgg aaccgggaag ggtggcctgt 2700
tccctagaga gaataaattg gattattttc taacaaaaaa a 2741

```

<210> 93

<211> 1305

<212> DNA

<213> Homo sapiens

PF-0509 USN

<220>

<221> misc_feature

<223> Incyte ID No: 1732368CB1

<400> 93

```
gaggaaatac cgatggacct aacggtagtg aagcaggaaa ttatagactg gccaggtaca 60
gaaggcagga gacggatagt agtttagtgg taaaagaagc gaagggtggg gaaccagagg 120
taaaggaaga gaaggtaaag gaagaggtaa tggactggtc agaagtgaag gaagagaagg 180
ataacttggg gataaaacag gaggagaagt ttgttgggtc atgcataaaa gaggaattga 240
tgcatggaga gtgtgtaaaa gaagagaagg atttcctgaa gaaagaaatc gtggatgata 300
caaagggtgaa agaagagcct ccgataaatc acccgggtgg ctgcaagcgg aaactggcca 360
tgtcaagggtg tgagacttgt ggtacagaag aagcaaagta cagatgtcca cgttgtatgc 420
gatattcctg cagtttgccc tgtgtaaaaga aacacaaagc agaactgaca tgtaatggag 480
ttcgagataa aactgcatac atttcaatac aacagtttac tgaaatgaat ctcctaagtg 540
attatcgatt tttggaagat gtggcaagaa cagcggacca tatttctaga gatgcttttt 600
tgaagagacc aataagcaat aaatatatgt actttatgaa aaatcgtgcc cggaggcaag 660
gtattaactt aaaacttcta cccaatggat tcaccaagag gaaggagaat tcaacctttt 720
ttgataagaa aaaacaacag ttttgttggc atgtgaagct ccagtttcct caaagtcaag 780
ctgagtacat agaaaaaaga gtaccagatg ataaaactat taatgaaatc ctaaacctt 840
acattgatcc tgaaaagtct gatcctgtaa ttcgtcaaag gttgaaagcc tacattcgct 900
ctcagactgg ggttcagatt ttaatgaaga ttgaatatat gcagcaaat ttagtaagat 960
attatgaact agatccttat aaaagtctcc tagacaattt gaggaacaaa gtgatcattg 1020
agtatccaac attacatgtg gtattgaaag gatccaataa tgacatgaaa gttcttcacc 1080
aagtgaagag tgaatctacc aagaacgttg gcaatgaaaa ttgagcattt tttctggaag 1140
aagaaaagtga aaacttccag acaactgcag cagactctgc attgatgggc tgttggctga 1200
ttgggggtatt gtcaatgggt gattggaatt ttttctttgt atgaaaaata agcttaactc 1260
ttttaaaaaa tgtattttat aacctcttga attaattgac ttgta 1305
```

<210> 94

<211> 1145

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1870914CB1

<400> 94

```
cacgaaggcg gcaaaggcga cggaatggag gaggtgcctc acgactgtcc aggggccgac 60
agcgcccagg cgggcagagg ggcttcatgt cagggatgcc ccaaccagcg gctgtgcgct 120
tctggagcgg gggccactcc ggacacggct atagaggaaa tcaaagagaa aatgaagact 180
gtaaaacaca aaatcttggg attgtctggg aaaggcgggt ttgggaaaag cacattcagc 240
gccaccttg cccatggcct agcagaggat gaaaacacac agattgctct tctagacatc 300
gatatatgtg ggccatcgat tcccaagata atgggattgg aaggagagca ggttcaccag 360
agtggctcag gctggtctcc agtgtacgtg gaagacaacc tgggggtgat gtcagtgggc 420
ttcctgctca gcagtcctga tgatgctgtt atctggaggg gacccaagaa aaacggcatg 480
atcaagcagt tcctccgaga tgtggactgg ggagaggtcg actacctcat tgtggacacc 540
ccacctggga cgtcggatga acacctctcg gtcgtccggc acctggccac agcacacatc 600
gatggagcag tgatcatcac cactccccag gaggtgtcac tccaggatgt ccggaaagaa 660
atcaacttct gccgaagggt gaagctgccc atcatcgggg tgggtggagaa catgagtggc 720
ttcatctgtc ctaagtgcaa gaaagaatct cagatattcc ctcccacaac cgggggcgcg 780
gagctcatgt gccaggactt ggaggtccct ctccctcgga gagtggccct ggatccgctc 840
ataggaatcc aagagttttg taatctccat cagtcaaaag aagagaacct catcagttcc 900
tgaagcgaga gaatgttcag gaccaagcag ttaccgagcg aggcactcac tgggcagcac 960
```


PF-0509 USN

```
atccagccag acccgaccag ctccgggatg ggggtgggtca cagcaaaagg accagatgct 1020
gggtgtgggtcc gaagccactt tctcagagac actttaatca ttgagtattt gtacactttt 1080
ctttagaaca tatataaagg gcatttctta caaatgtgcc gttttaagaa tagggccccg 1140
gtcga 1145
```

<210> 95

<211> 1470

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1910984CB1

<400> 95

```
acccccgaac agctgctgga gcataagaaa tgccacactg tccccaccgg tgggctcaat 60
ttatgttcta ggatgaccaa gtagaagaat actttgaaaa aattgataat gccttctggc 120
tatacagtgc ccattctgca tttattccac caaccgcccc gctgccatgg agtgccacct 180
caagaccacac tacaagatgg agtacaagtg ccgcatctgc cagacggtga aggccaacca 240
gctggagctg gagacgcaca cccgggagca ccgcctgggc aaccactaca agtgcgacca 300
gtgcgggtac ctgtccaaga ccgccaacaa gctcatcgag cacgtgcgcg tccacaccgg 360
ggagcggccc ttccactgtg accagtgcag ctacagctgc acaggcaagg acaatctcaa 420
cctgcacaag aagctgaagc acgccccacg ccagaccttc agctgcgaag agtgctgtt 480
caagaccaca caccctttcg tcttcagccg ccacgtcaag aagcaccaga gtggggactg 540
ccctgaggag gacaagaagg gcctgtgtcc agcccccaag gaaccggccg gcccgggggc 600
cccgtcctg gtggtcggga gctccccgaa tctcctgtct cccctgtcag ttatgtctgc 660
ctcccaggct ctgcagaccg tggccctgtc ggcagcccac ggcagcagct cagagcccaa 720
cctggcactc aaggcttttg ccttcaacgg ctcccctttg cgctttgaca agtaccggaa 780
ctcagatttt gccatctca ttcccttgac aatgttatac cccaagaacc acttggatct 840
cacattccac cctccccgac ctcagactgc gcctcccagc atcccctcac ccaaactc 900
cttcctggcc tatctcggac tgagagaaaag agcagagact gtctgagggc agccatgttc 960
tgtacaaaaa acagagagac aaaagacaaa aaaaaaaaaa aaaccacaaa acttaaacac 1020
aaccacagca ggtgtatgtt gctgcaaaac ctacagaccc cgatgggtct ggaacatgtg 1080
tactgtatat ctttagtaag gaatagaaaa ttggctctgt gtgtatacct attgcattga 1140
cctgaaagct gctttatcca atcttcagag aggtgacctt ctgcatactt ctaccttcag 1200
aggcatgcct cccagccac ccactcccac tctcagccct tctcgtact tttcttgaa 1260
aggaatcttg tcttgtaaa ccctaaagag agtgtcctta atagcaatca gcacttgtaa 1320
gcttatatac tgggtcattt cggttttctg ttagggtgaa tgcggtgtgt gggcggttgt 1380
ggattctgaa agagaaaagg gtgtgtcgtg tgccatgaca tttctattcc acattcttgg 1440
tactggcttc tttaacacgag atgaacgttc 1470
```

<210> 96

<211> 1399

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1943040CB1

<400> 96

```
ctgggaaggc cccggacccg caggaccccc aggacgcgga gtccgactct gccaccggat 60
cgcagaggca gtccgtcatc cagcagcctg ccccgacag gggcacggcg aaactgggaa 120
ccaagaggcc gcaccccgag gatggggagc ggcagagcct cgagggcgct tctagctccg 180
```



```

gcgacagcgc agggctggag gccgggcagg gccctggggc tgacgagccg ggcttgtccc 240
gcggaagcc ctatgcctgc ggcgagtgcg gggagggcctt cgcgtggctc tcgcacctga 300
tggagcacca cagcagccat ggcggccgga agcgtacgc ctgtcagggc tgctggaaga 360
ccttccactt cagcctggcc ctagccgagc accagaagac ccacgagaag gagaaaagct 420
acgcgctggg gggcgcccgg ggcccccac cgtccaccg cgaaccagg cgggggctag 480
ggcgggcggt cccccagaga gcgtggaggg cgaggctccc cccgcacccc cagaggcgca 540
gaggtgagcc gctgtgctgt cccgttccgg aggggcccgt ttgcggccg tgaatcccag 600
acgaggcatt gggcctttcc acgcccctgg gtggcggtt cctgtggtgt ttgtggacgt 660
cctctgctg tgccctgaat ccgctcctga ggctaagcgc tccaacgag aagggtccac 720
gggaagccct cacctctgta aacacaccct gggccagcgc tcgcatccga ggggagccgc 780
cggtatgtga agaagactcg gctttcctgc agccatttag tgccgcccc tgctaggtta 840
tttgacattg tgcagtgtag agttgcctta aagtgcgtga tctgccagt ctttcttcaa 900
gtcacccttg ccccgattcc tcctgtttgc gtcgccagg gttgctcaag tggaaatatt 960
gtcagctgtt tagccttttc gtacttggcg tgatgtcaac ttcacttcta atctgcaaaa 1020
gcagaagctg tttcctagtt tacctcgcgt gtgtttacct atatggagta gctcgcagag 1080
atcacagaaa tgcttgacgc ctaaggcagg gttttcagac cgtgggtccc agcccattta 1140
gtaaaatggg aaatcaatta gcaagtggtc accagcatta cacagcaatg aagcagaata 1200
aagtaggcca gaatgcatca tgtagtaaag gcaaatactg ttttgtgaaa cttttcacc 1260
atacatctaa atgtgagaac tggttgcaat gtaagacatt tcttgctggg aagttgtgag 1320
caaaataagt tgaaaacact aataaagatc tgtctgtctg agcaaaggag actaaactcc 1380
ttgggctaca aaaaaaaaaa

```

<210> 97

<211> 3247

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2076520CB1

<400> 97

```

cggctcgaga tcgaaccaag gaaaaacttc ccctgagctc agtatcatatc agtaatatga 60
ttgaaccgga tcagtgtttc tgccgttttg atttaacagg aacatgtaat gatgatgatt 120
gtcaatggca gcatatacaa gactatacac ttagccgaaa acagttattc caggacattc 180
tgtcatataa tctgtctttg attggttgtg cagagacaag tactaatgaa gaaattactg 240
cttcagcaga aaaatatgtt gagaaacttt ttggagtaaa caaagatcga atgtcaatgg 300
accagatggc tgttctcctt gttagcaata tcaatgaaag taaaggcat actcctccat 360
ttacaacctt caaagataaa agaaagtggg agccaaagtt ttggagaaaa cctatttcag 420
ataatagctt cagtagtgat gaggaacagt ctacaggacc aattaagtat gctttccagc 480
cagagaacca aataaatgtt ccagctctgg atacagttgt cactccagat gatgtcagat 540
actttacaaa tgagactgat gacatcgcta atttagaagc aagtgtgctt gaaaatcctt 600
ctcatgtaca actttggctc aagcttgctg acaagtactt gaatcaaaat gagggggagt 660
gctcagaatc cttggattct gctttaaatg ttctggcgcg agcattggaa aataacaaag 720
acaatccaga aatttggtgc cattacctca gattgttctc aaaaagagga accaaggacg 780
aggtgcagga aatgtgtgaa acagctgttg aatatgctcc agattatcaa agcttttgga 840
cttttctaca cctagaaagt acctttgaag aaaaggatta cgtatgtgag agaatgttgg 900
agtttctgat gggagcagcc aagcaggaaa catccaatat tttgtccttt cagcttttag 960
aggctctttt gtttagagtt cagctgcaca tatttactgg aagatgcaa agtgactgg 1020
caattttaca gaatgcattg aaatctgcta atgatggaat agtagctgaa taccttaaaa 1080
ccagtgatcg atgtttggca tggttggcct acatacatct tattgaattc aacattctcc 1140
cttcaaaatt ttatgatcca tctaatagata atccttcaag aattgttaac actgaatcat 1200
ttgtaatgcc atggcaagct gttcaagatg taaagactaa tcctgacatg ttgttagcag 1260
tttttgaaga tgcagtgaag gcttgacag atgagagcct tgctgttgag gaaagaatag 1320

```



```

aggcctgcct tccactttac acaaacatga ttgctctgca ccaactcctg gagaggtatg 1380
aggctgcaat ggagctttgt aaatctttat tggaatcatg tcctattaac tgccagttgc 1440
tggaagccct tgttgcatga tatttgcaaa caaatcagca tgacaaagcc agagcagtggt 1500
ggcttactgc atttgaaaaa aatcctcaga atgcagaggt tttttatcat atgtgcaaat 1560
tcttcattct acagaatcga ggcgataatc ttcttcattt tttgcggaaa tttattgcat 1620
ccttccttaa accgggggtt gagaaagtata ataacttgga tctgtttcgg tatctcttaa 1680
atattccagg accaattgac attccatctc gtttatgtaa agggaatttt gatgatgata 1740
tgtttaacca ccaagttcct tatttgtggc tgatttactg cctttgtcat cctcttcaat 1800
caagtattaa agaaacagtg gaggcataat aggcagcatt aggggtggct atgagatgtg 1860
atatagtaca gaagatatgg atggattatc ttgtctttgc aaataataga gctgctggat 1920
ccagaaacaa agttcaagaa ttcagatttt ttactgattt agtgaataga tgtttgggta 1980
cagtcctctg ccgatacccc attcctttta gcagtgtctg ttactgggtcc aactatgaat 2040
ttcataatag gggtattttt ttttatttga gctgtgttcc aaagaccag cattccaaaa 2100
ccttggaacg gttttgttca gttatgccag ctaattctgg acttgcatg aggttacttc 2160
aacatgaatg ggaagaaagc aatgttcaga ttctgaaact tcaagccaag atgtttacat 2220
ataatatccc aacatgcctg gccacctgga aaatagccat tgctgctgag attgttctaa 2280
agggacaaaag agaggtccac cgtttatatc agagagcctt acagaagtta cctctttgtg 2340
catcactgtg gaaagatcaa ctcttgtttg aagcatcaga aggaggtaaa actgataacc 2400
tgagaaaact agtttccaag tgccaagaga ttggagtcag cctaaatgag ctcttaaatt 2460
taaacagtaa caaaacagaa agcaagaatc actgaacact ggggtgcagtc agttctaagt 2520
ccttataata attgcaaaaa ttatttgaat gattcttcaa gattaggctg atccctggct 2580
aaggtctgtg taaggcagac aagcgttatt gatcatatca agttccctac aatatcctgt 2640
cctcaaaacc ggaagcaatg aacatgatcc tcttcggttg gataaatgaa ctctctgttt 2700
ggcctgcttc taggccctgc cagattctca taacatcata tacgtaagta tagttcctca 2760
aagtgcactg cattttatttt aattttgctt tgtttttttt tattttctcc cccattcctt 2820
tattttgtgt tattcctgac tcaattgaca ctctctgatg cctgagagat tcctgtttgg 2880
gatttaatat ccagggtgtg gtttacagta aaaaaagcag gcagtcctct ttagtttttc 2940
ctttttaaat ttttttgaga ttcttcattt caggatttaa aactatagca gtccatctta 3000
aggaaagtgt aactgccatg gccacaagtc tgctagtgtc acttgaatgc tctatcaggg 3060
ttgtttatta ccctttctac gttctggact ccttgccgag actgtttaac ttgaagatta 3120
aagaaactat tgcaaagcc agtgcacag aacctaagag tggtaaaata ttatgtgcaa 3180
tttttttgta aagaaatttt aatttataat aaagttaaac agtttaaaga aaaaaaaaaa 3240
aaaaaaa

```

<210> 98

<211> 2348

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2291241CB1

<220>

<221> unsure

<222> 2340

<223> a, t, c, g, or other

<400> 98

```

ttcggcagag gccgaacctg gcttcgctaa cgccctccca gctccctcgg gtctgacttc 60
cggtttcttc gcgcgtccct ggcgccgagc ccgcggacag cggcagcccc ttttcgggt 120
gagagctcat ccacacttcc aatcactttc cggagtgtct cccctccctc cggcccggtgc 180
tggtcccgac ggcgggcctg ggtctcgctg gcgtattgct gggtaacggg ccttctcccg 240
cgtcggcccc gccctcctg cctcggctcg tccctccttc cagaacgtcc cgggctcctg 300

```



```

c̣cgagtcaga agaaatggga ctccctccgc gacgtgcccc gagcagctcc cttcgtgtg 360
gaagcggcgg tgtcttcgaa gaaaccggaa gcccggtgtg acccctggcg acccggtttg 420
ttttcgggtcc gtttccaaac actaaggaat cgaaactcgg cggccttggg ggcggcccta 480
cgtagcctgg cttctggttg tcatggatgc actggtagaa gatgatctct gtattctgaa 540
tcatgaaaaa gcccataaga gagatacagt gactccagtt tcaatatatt caggagatga 600
atctgttgct tcccattttg ctcttgtcac tgcataatgaa gacatcaaaa aacgacttaa 660
ggattcagag aaagagaact ctttgttaaa gaagagaata agatttttgg aagaaaagct 720
aatagctcga tttgaagaag aaacaagttc cgtgggacga gaacaagtaa ataaggccta 780
tcatgcatat cgagagggtt gcattgatag agataatttg aagagcaaac tggacaaaat 840
gaataaagac aactctgaat ctttgaaagt attgaatgag cagctacaat ctaaagaagt 900
agaactctc cagctgagga cagagggtga aactcagcag gtgatgagga atttaaattc 960
accttcatca aactgggagg tggaaaagtt gagctgtgac ctgaagatcc atgggtttgga 1020
acaagagctg gaactgatga ggaaagaatg tagcgatctc aaaatagaac tacagaaagc 1080
caaacaaacg gatccatatc aggaagacaa tctgaagagc agagatctcc aaaaactaag 1140
catttcaagt gataatatgc agcatgcata ctgggaactg aagagagaaa tgtctaattt 1200
acatctggtg actcaagtac aagctgaact actaagaaaa ctgaaaacct caactgcaat 1260
caagaaagcc tgtgcccctg taggatgcag tgaagacctt ggaagagaca gcacaaaact 1320
gcacttgatg aattttactg caacatacac aagacatccc cctctcttac caaatggcaa 1380
agctctttgt cataccacat cttccccctt accaggagat gtaaagggtt tatcagagaa 1440
agcaatctc caatcatgga cagacaatga gagatccatt cctaattgat gtacatgctt 1500
tcagggaacac agttcttatg gcagaaattc tctggaagac aattcctggg tatttccaag 1560
tcctcctaaa tcaagtgaga cagcatttgg ggaaactaaa actaaaactt tgcctttacc 1620
caaccttcca ccactgcatt acttgatca acataatcag aactgccttt ataagaatta 1680
atttggaaga gattcacgat ttcacatga ggacacttat ctctttcagt ggtcctccca 1740
agaaattatt taacaaactg aaaggagatt ttgattaaaa ttttgcagag gtcttcagta 1800
tctatatatt aacacactgt acaatagtag aaaaaccaac atagttgggt ttctagtatg 1860
aaagagcacc ctctagctcc atattctaag aatctgaaat atgctactat actaattaat 1920
aagtaaactt aagggtgtta aaaaactctg cttctatat taattgtaa attttgctc 1980
tcagaagaat ggaattggag attgtagacg tgggtttaca aaatgtgaaa tgtctaaata 2040
tctgttcata aaaataaaag gaaaacatgt ttcttcaaat tgcataatgg aacaaatggc 2100
aatgtgagta ggttacattt ctgttgttat aatgcgtaaa gatattgaaa atataatgaa 2160
ataaaagcat cttagggttat accatcttta tatgctattg cgtttcaata tttagattt 2220
aaagtgattt tttggtcaca gtgtttgtt gataaaattt ttttagaatt gaagtttgaa 2280
ttctaagact tgaaacaacc ttatcactga agccaacttt ttcccagcac attccttaan 2340
tcctaatt 2348

```

<210> 99

<211> 2508

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2329692CB1

<220>

<221> unsure

<222> 4, 6, 20, 65, 114, 127, 140, 149, 162, 188, 204, 216, 221, 232, 274, 282, 285, 291-292, 309

<223> a, t, c, g, or other

<400> 99

```

catncnggaa accaaaactn gtaccaacac cactacaact ccccatcgcc agagacacac 60
accncttcc aggaaaagag taaccccaa gggggataac aacccaagc taanccaaac 120

```



```

ctccctnacc gtgtaagcan ccattccanc cacaattccc anacctcca aaaccaccaa 180
cctaattnaa aggccctccc cctnctaatt gacctnacag nagcccaaga tnaaaaagtt 240
tagggaccac ccctgtttta gcaaaaagat aatnttgggg gncnttttg nnttaaccat 300
tgtcagaana ttgggctaaa gagaagacga cgagagtaag gaaataaagg gaattgcctc 360
tggctagaga gtagttaggt gttaatacct ggtagagatg taagggatat gacctccctt 420
tctttatgtg ctactgagg atctgagggg accctgttag gagagcatag catcatgatg 480
tattagctgt tcatctgcta ctgggtggat ggacataact attgtaacta ttcagtattt 540
actggtaggc actgtcctct gattaaactt ggcctactgg caatggctac ttaggattga 600
tctaagggcc aaagtgcagg gtgggtgaac tttattgtac tttggatttg gttaacctgt 660
tttcttcaag cctgaggttt tatatacaaa ctccctgaat actctttttg ccttgtatct 720
tctcagcctc ctagccaagt cctatgtaat atggaaaaca aacactgcag acttgagatt 780
cagttgccga tcaaggctct ggcattcaga gaacccttgc aactcgagaa gctgttttta 840
tttcgttttt gttttgatcc agtgctctcc catctaaca ctaaacagga gccatttcaa 900
ggcgggagat attttaaaca cccaaaatgt tgggtctgat tttcaaactt ttaaactcac 960
tactgatgat tctcacgcta ggcgaatttg tccaaacaca tagtgtgtgt gttttgtata 1020
cactgtatga cccaccccca aatctttgta ttgtccacat tctccaacaa taaagcacag 1080
agtggattta attaagcaca caaatgctaa ggcagaattt tgaggggtgg agagaagaaa 1140
agggaaagaa gctgaaaatg taaaaccaca ccaggaggga aaaatgacat tcagaaccag 1200
caaacactga atttctcttg ttgttttaac tctgccacaa gaatgcaatt tcgttaatgg 1260
agatgactta agttggcagc agtaatcttc ttttaggagc ttgtaccaca gtcttgaca 1320
taagtgcaga tttggctcaa gtaaagagaa tttcctcaac actaacttca ctgggataat 1380
cagcagcgta actaccctaa aagcatatca ctagccaaag agggaaatat ctgttcttct 1440
tactgtgcct atattaagac tagtacaat gtggtgtgtc ttccaacttt cattgaaaat 1500
gccatatcta taccatattt tattcgagtc actgatgatg taatgatata ttttttcatt 1560
attatagtag aatattttta tggcaagata tttgtggtct tgatcatacc tattaaaata 1620
atgccaaaca ccaaatatga attttatgat gtacactttg tgcttggcat taaaagaaaa 1680
aaacacacat cctggaagtc tgtaagttgt tttttgttac tgtaggtctt caaagttaag 1740
agtgtaaagt aaaaatctgg aggagaggat aatttccact gtgtggaatg tgaatagtta 1800
aatgaaaagt tatggttatt taatgtaatt attacttcaa atcctttggt cactgtgatt 1860
tcaagcatgt tttctttttc tcctttatat gactttctct gagttgggca aagaagaagc 1920
tgacacaccg tatgttggtta gagtctttta tctggtcagg ggaaacaaaa tcttgacca 1980
gctgaacatg tcttcctgag tcagtgcctg aatctttatt ttttaaattg aatgttcctt 2040
aaaggttaac atttctaaag caatattaag aaagacttta aatgttattt tggagactt 2100
acgatgcatg tatacaaacg aatagcagat aatgatgact agttcacaca taaagtcctt 2160
ttaaggagaa aatctaaaat gaaaagtgga taaacagaac atttataagt gatcagttaa 2220
tgcctaagag tgaaagtagt tctattgaca ttcctcaaga tatttaatat caactgcatt 2280
atgtattatg tctgcttaaa tcatttaaaa acggcaaga attatataga ctatagggtta 2340
ccttctgtg taggagtagt aaaggggagt tgatagtcct ataaaactaa tttgggttca 2400
agtttcatga atctgttaact agaatttaat tttcacccca ataagtgtct atatagcctt 2460
tgctaaagag caactaataa attaaaccta ttctttcaaa aaaaaaaa 2508

```

<210> 100

<211> 2232

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2474110CB1

<400> 100

```

tttccaggga gacgagggcg cctgcccgc cgggacttc gtggtaggag cgcttatcct 60
gcgctctatc ggcattggacc cgagcgacat ctacgcggtc atccagatcc cgggcagccg 120
cgaattcgac gtgagcttcc gctcagcgga gaagctggcc ctgttcctac gcgtctacga 180

```



```

ggagaagcgg gagcaggagg actgctggga gaactttgtg gtgctggggc ggagcaagtc 240
cagcttgaag acgctcttca tcctcttccg gaacgagacg gtggacgtgg aggacattgt 300
gacttggtc aagcgccact gcgacgtgct ggccgtgccg gtgaaagtga cggacaggtt 360
tgggatctgg accggggagt acaaatgcga gatcgagctg cgccaggggg agggcgggg 420
caggcacttg ccaggggcct tcttctggg ggccgagagg ggctacagct ggtacaagg 480
gcagcccaag acatgcttta aatgtggttc ccggaccac atgagcggca gctgcacgca 540
ggacaggtgc ttcaggtgcc gggaggagg gcacctgagc ccttactgcc ggaaggcat 600
cgtgtgcaac ctctgtggca agcgaggaca cgcctttgcc cagtgtcca aagcagtgc 660
caattccgtg gcagctcagc taaccggcgt ggccgggcac taaacaccg cctgcctgcc 720
aggggtgaaca cacagccagc ttaccctct taagtgccaa aactttttt taaaccattt 780
tttatcgttt ttgaaggaga tctttttaaa acctacaaga gacatctctc tatgccttct 840
taaaccgagt ttactccatt tcagcctgtt ctgaattggg gactctgtca ccaataacga 900
ctgctggagaa ctgtagcgtg cagatgtgtt gcccctccct tttaaaattt tttttctgtt 960
tttctattgg gtatttgtt tgtttcttgt actttttctc tctctccttg cccccctccc 1020
gccctccccg ccccatacct tttcttcccc tggattttca ccctttgggc tgccttgctc 1080
atctttatgc cccagcacta ggtacggggc ccaacacgtg gtaggcactc catcagtgtt 1140
tgctgaattg aaaacattgt tgactgtggc ttctatcaga gtgtctacct tttgcagctc 1200
ttccccctcc tcatttaatt tgctgctttt aatctacgtg gtctgagaat ttgtgaaacc 1260
agtgttggtt gaagtgtata taatctgaat caataagctc tgaatgggtg ccaagggcct 1320
ctcttatggc acaaagatgc atggacttca tgacagctct tttgggtggc cagaagccat 1380
tttttataga atcatggaat ctagaatatt cctgctggaa agaacctgag agttggttt 1440
gaccaattcc ctggttttcc agcagatgaa acaggcccaa agaggttaaa tgactgggtg 1500
aaaatcacat agctgtctgg tgccagagcc agcctatagt agagtccct gacccaagc 1560
ccggtgctca ttccactacc tctcacactt cacaacaatt tcctcaacac ttgagggcc 1620
agaaagtctg atctctccag aatgatcagc ccagaggaat gctgagaaat cacctggagg 1680
agggagcaga aagagaaggt ttttaaggag gggcttctga atacttggga gataccgaac 1740
ggaccaagga ccacactcca ggggtgcattc gttgtctcct ggggcaccac ttctggatta 1800
cagtgtgcca ggtcctttgg aggccttacc ccttccccat tcattgccac cagtgagaaa 1860
tgggggtgcc cctgtgtaaa gaaacctacc aaaggtttac atttgcacct tagcctcaat 1920
agctacgaac cctagagaag cagctagctg gagctcatgt gcaactcctg attctcagga 1980
gaaagatgga ttttaacca aaattatgag tgagctgtta actctaaaat gtacttggga 2040
gataggccaa gcgagaggtc atgggccaa taagtgttat ccagtagaaa agacagtaca 2100
ctgcttttct tttagtgtt gcttttcctt tgctatatgt tttgctattt ccttgtggct 2160
tagaatgtaa aattgattgt taaaagtttt gttctgaata aatatttatc ttttgtattg 2220
ctaaaaaaaa aa 2232

```

<210> 101

<211> 1620

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2495790CB1

<400> 101

```

aacatggcgt tctgggggtg gcgcgccgcg gcagccctcc ggctgtgggg ccgggtagtt 60
gaacgggtcg aggcggggg aggcgtgggg ccgtttcagg cctgcggctg tgggctggtg 120
cttggcggca gggacgatta ttaaagggtg aagaaggctc atatctttt ctgtgggtgc 180
ttcaagtgtt gttggaagtg gaggcagcag tgacaagggg aagctttccc tgcaggatgt 240
agctgagctg attcgggcca gagcctgcc gaggggtggt gtcatgggtg gggccggcat 300
cagcacaccc agtggcattc cagacttcag atcgccgggg agtggcctgt acagcaacct 360
ccagcagtac gatctcccg accccgaggc catttttgaa ctcccattct tctttcaca 420
ccccaagccc tttttcactt tggccaagga gctgtacct ggaaactaca agcccaacct 480

```


PF-0509 USN

```

cactcactac tttctccggc tgcttcatga caaggggctg cttctgcggc tctacacgca 540
gaacatcgat gggcttgaga gagtgcggg catccctgcc tcaaagctgg ttgaagctca 600
tggaaccttt gcctctgcca cctgcacagt ctgccaaaga cccttcccag gggaggacat 660
tcgggctgac gtgatggcag acaggggttcc ccgctgcccg gtctgcaccg gcgttggtgaa 720
gccccgacatt gtgttctttg gggagccgct gccccagagg ttcttgctgc atgtgggttga 780
tttccccatg gcagatctgc tgctcatcct tgggacctcc ctggaggtgg agccttttgc 840
cagcttgacc gaggccgtgc ggagctcagt tccccgactg ctcataacc gggacttggt 900
ggggcccttg gcttggcatc ctgcgagcag ggacgtggcc cagctggggg acgtgggttca 960
cggcgtggaa agcctagtgg agcttctggg ctggacagaa gagatgcggg accttggtgca 1020
gcgggaaact gggaagcttg atggaccaga caaataggat gatggctgcc cccacacaat 1080
aaatggtaac ataggagaca tccacatccc aattctgaca agacctcatg cctgaagaca 1140
gcttgggcag gtgaaaccag aatatgtgaa ctgagtggac acccgaggct gccactggaa 1200
tgtcttctca ggccatgagc tgcagtgact ggtagggctg tgtttacagt cagggccacc 1260
ccgtcacata tacaaaggag ctgcctgcct gtttgctgtg ttgaactctt cactctgctg 1320
aagctcctaa tggaaaaagc tttcttctga ctgtgacctt cttgaactga atcagaccaa 1380
ctggaatccc agaccgagtc tgctttctgt gcctagttag acggcaagct cggcatctgt 1440
tggttacaaag atccagactt gggccgagcg gtccccagcc ctcttcatgt tccgaagtgt 1500
agtcttgagg ccctgggtgcc gcacttctag catgttggtc tccttttagtg gggctatatt 1560
taatgagaga aaatctgttc tttccagcat gaaatacatt tagtctcttc aaaaaaaaaa 1620

```

<210> 102

<211> 608

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2661254CB1

<400> 102

```

gcaatacgtt atggcgacca aacgcctttt cggggctacc cggacgtggg cgggctgggg 60
ggcctgggag ctctaaacc ccgccacttc cggaagactc ctggcccggg attatgccaa 120
gaaaccagtt atgaaggggg ccaaactcggg aaaagggtgca gtgaccagcg aggcctcaa 180
ggacccccgac gtatgcacag atcctgtcca gctcaccaca tatgccatgg gcgtcaacat 240
ctacaaggaa gggcaggatg tacccttgaa accggatgct gagtacctg aatggctgtt 300
cgagatgaac ttgggtcccc caaagaccct ggaggagctg gaccccgaga gccgggagta 360
ctggcggcgg ctgcggaaac agaacatctg gcgccacaac cggctgagca agaacaagag 420
gttgtagcat ggaggggccc gcctcgctga cccccacgcc gagggcttgc cgttttccc 480
gaggacgtgg acttttgtga gacaagaggc ggctccccag cctgggtttc catgtgaccc 540
cacagtgggg ctggaccagg gccctggagg ccaataaaga gctttctggg tagaccctaa 600
aaaaaaaaa

```

<210> 103

<211> 3257

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2674047CB1

<220>

<221> unsure

<222> 4-5, 9, 23, 37, 43, 74, 118, 252

<223> a, t, c, g, or other

<400> 103

```

ggannccant  tggAACGGGA  aangtcggag  ccattgngtg  tgnccatttg  cccttgggat  60
ttagcctggg  aaancctgct  ttcATGGGAC  cgagcagatt  aagggttggg  ttttttngga  120
agagaggatg  ttctagagcc  atggttgaaa  ttgaattgtt  cagggtctct  ggaaatcttg  180
taatcaccCG  tgagattgat  gtggcaaaaa  atcagtcctt  ttggttcac  aacaaaaaat  240
ctacaaccca  gnaaatagt  gaagagaaag  ttgcagcctt  aaatattcaa  gtggggaatc  300
tttgccagtt  tctccctcag  gacaaagttg  gagaatttgc  taaactcagc  aaaattgaac  360
tcctcgaagc  cactgaaaag  tcaattggtc  cccagaaat  gcacaaatat  cactgtgaac  420
tcaaaaactt  aaggggagaaa  gaaaaacagc  tcgagacctc  atgcaaagag  aaaactgagt  480
atctacagaa  aatggttcag  aggaatgaaa  gatataaaca  agatgtggag  aggttctatg  540
aacggaagcg  acatttagat  ttaattgaga  tgcttgaagc  aaaaaggcca  tgggtggaat  600
atgaaaatgt  tcgtcaggaa  tatgaagaag  taaaactagt  tcgtgaccga  gtgaagggaag  660
aggtcagaaa  acttaaagaa  gggcagattc  ctataacatg  tcgaattgaa  gaaatggaaa  720
acgagcgtca  caatttggag  gctcgaatca  aagaaaaggc  aacagatatt  aaggaggcat  780
ctcaaaaatg  caaacagaag  caagatgtta  tagaaaggaa  agataaacat  attgaggaac  840
ttcagcaggc  tttaatagta  aagcaaatg  aagagcttga  ccgacagagg  agaataggta  900
atacccGcaa  aatgatagag  gatttgcaaa  atgaactaaa  gaccacggaa  aactgcgaga  960
atcttcagcc  ccagattgat  gccattacaa  atgatctgag  acggattcag  gatgaaaagg  1020
cattatgtga  aggcgaaata  attgataagc  gaagagagag  ggaaactcta  gagaaggaga  1080
aaaagagtgt  ggacgatcat  attgtacgtt  ttgacaatct  tatgaatcag  aaggaagata  1140
agctaagaca  gagattccgt  gacacgtatg  atgctgtttt  atggctaaga  aataacagag  1200
acaaatttaa  acaaagagtc  tgtgagccca  taatgctcac  gatcaatatg  aaagataata  1260
aaaatgccaa  atatattgaa  aatcatattc  catcaaatga  cttaagagcc  tttgtatttg  1320
aaagtcaaga  agatatggag  gttttcctca  aagaggttcg  tgacaataaa  aaattaagag  1380
taaagtctgt  tattgtctcc  aagagttcat  atgcagacaa  agcaccttca  agatctttga  1440
atgaacttaa  acaatacggg  tttttctctt  atttgagaga  attatttgat  gcacctgac  1500
ctgtaatgag  ttacctttgc  tgtcagtatc  atattcatga  agttcctgta  ggaactgaaa  1560
agaccagaga  aagaattgaa  cgggtaatac  aagaaacccg  attaaaacag  atttatacag  1620
cagaagaaaa  gtatgtggtg  aaaacttctt  tttattcaaa  caaagttatt  tctagtaaca  1680
catctctaaa  agtagcgcag  tttctcactg  tcactgtgga  cctagagcag  agaagacact  1740
tagaagaaca  gctaaaggaa  attcatagaa  aattgcaagc  agtggattca  gggttgattg  1800
ccttacgtga  aacaagcaaa  catctggagc  acaaagacaa  tgaacttaga  caaaagaaga  1860
aggagcttct  tgagagaaaa  accaagaaaa  gacaactgga  acaaaaaatc  agttccaaac  1920
taggaagttt  aaagctgatg  gaacaggata  cttgcaatct  tgaagaggaa  gagcgaaaaa  1980
caagtaccaa  aatcaaagaa  ataaatgttc  aaaaagcgaa  acttgttacc  gaattataca  2040
acctaaataa  gatttgaact  tctttgcata  taaaaaagt  agatttaatt  ctccaaaaata  2100
ctacagtgat  ctctgagaag  aacaaattag  aatcagatta  tatggccgca  tcttcacaac  2160
tccgtcttac  agagcaacat  ttcattgaat  tggatgaaaa  tagacagaga  ttattgcaga  2220
aatgcaagga  acttatgaaa  agagctaggc  aagtatgtaa  cctgggtgca  gagcagactc  2280
ttcctcaaga  ataccagaca  caagtaccca  ccattccaaa  tggacacaa  tcctcactcc  2340
ccatggtttt  ccaagacctt  ccaaacacat  tggatgaaat  tgatgcttta  ttaactgaag  2400
aaagatcaag  agcttctctg  ttcacgggac  tgaatcctac  aattgttcag  gaatatacaa  2460
aaagagaaga  agaaatagaa  cagttaactg  aggaactaaa  gggaaagaaa  gttgaactag  2520
atcaatacag  ggaaaacatt  tcacaggtaa  aagaaagggtg  gcttaatcct  ttaaaagagc  2580
tggtagaaaa  aattaatgaa  aaattcagca  atttttttag  ttccatgcag  tgtgctgggtg  2640
aagttgatct  ccatacagaa  aatgaggaag  attatgataa  atatggaatt  cgaattagag  2700
tcaaatttcg  aagtagtact  caactgcatg  aattaactcc  tcatcatcaa  agtggagggtg  2760
aaagaagtgt  ttctaccatg  ttatacttga  tggcacttca  ggagctaaat  agatgtccat  2820
tcagagtagt  tgatgaaatc  aatcagggaa  tggacccaat  caatgaacgg  agagtgtttg  2880
aaatggttgt  aaatactgcc  tgtaaagaaa  atacatctca  atactttttc  ataacaccaa  2940
agctcctgca  aaatcttcc  tattctgaaa  agatgacagt  tttgtttgtc  tacaatggcc  3000
ctcatatgct  ggaaccaaac  acatggaatt  taaggcttt  ccaaaggcgg  cggcgccgta  3060

```


PF-0509 USN

```
ttacattcac tcaaccttct taataaaagt aaagagaggg aacttgggaa ttttttttgt 3120
taaattctgt ttataagtat ggctcaactg aataaaagga gattcactaa aacgaaaagc 3180
agttattttt ggaaacctgc ttttaaatac aaatagggtg ataatggaaa ctataatgac 3240
ctttccaaaa tagcagc                                     3257
```

<210> 104

<211> 1945

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2762174CB1

<400> 104

```
caggggactt agacctggtt gttggcatgg agtggaggat gaagaggat cttctgagca 60
gagcattttt gtagtaggag tgtcagaggt caggactctc atggcagagc tggagtctca 120
cccatgtgac atatgtggcc caatattgaa agatacctta cacctggcta aataccatgg 180
gggaaaagcc aggcagaaac catacttggt tggggcatgt ggaaagcaat tctgggttcag 240
tacagacttt gaccagcacc agaaccagcc caatggaggg aaacttttcc caaggaagga 300
gggcagagac tctgtgaaaa gctgcagagt ccatgtgcc aagaagacc tcacatgtgg 360
gaaaggtagg agagactttt cagccacatc tggccttctt cagcatcagg cctctctcag 420
cagcatgaag ccccaacaaga gcactaagct tgtgagtggc tttctcatgg gacagaggta 480
tcacagggtg ggtgaatgtg ggaaagcctt caccgcgaaa gacacacttg ctggcatca 540
gagaatccac actggagaaa ggccttatga gtgtaacgaa tgtgggaaat tcttcagcca 600
aagctatgac ctcttttaaac accagacagt tcacactgga gaaaggccat acgagtgcag 660
cgaatgtggg aaattcttta gacaaatctc cggcctgatt gagcacaggc gatttcacac 720
gggtgaaaga ctctatcagt gtggcaaatg tgggaaattt tttagcagta agtctaattc 780
cattcgacac caggaagttc acacaggagc caggccttat gtatgcagcg aatgtgggaa 840
agagttcagt cggaaacaca cacttgttct gcaccaacga actcacactg gagaaaggcc 900
ttatgagtgc agtgaatgtg ggaaggcctt tagccaaagc tcccacctta atgtacactg 960
gagaattcac agcagtgatt atgagtgtag cagatgtggg aaagctttca gctgcatctc 1020
caaactcatt cagcaccaga aagttcactc tggagaaaag ccttatgagt gcagcaagtg 1080
cgggaaagcc ttcactcaaa gacccaacct catcaggcac tggaaagtcc aactgggga 1140
aaggccttat gtgtgtagt agtgcgagg agaattcatc cggaacaga cacttggtct 1200
gcaccagagg gtcatgctg gagaaaagct ttaagagtgt agcaaatgtg ggggaaagtc 1260
ttaggccaat gccccgact tactatatgg tggggaacta gcagtagtta atgagtgcag 1320
cagatgcagg aaagccttcc cctggaggct gaaccttacc cgccattggg aatttcacac 1380
cggacacagg ccttagcagt ctaagcaatg tgctgtctct gttcagccca acagctcacc 1440
ctagagtgga actctgggag cagccattgg gagggaacca tcagtaagaa gtgaaacttc 1500
atagatatgg acattcccac tggggagatt ccctgtgagt gccaagtatg tgagatgctt 1560
tcagcagctg tgttgcaact tttaaattggc tattggcctt tgctggggca ggagccatct 1620
gctcctacca tctggcagaa tcatactgcg tttaccattt accccagcat gcttgtgacg 1680
ggcagacctc tcttctctcc ccagtcctta aaagggtgtg tgagtggctc cacagcccac 1740
taggggtctt aatttcctct cttttgatgt aaatggcatg gaaataatca gctttgttca 1800
agaggacaca gaaggattct gcaaatagcc tgagagact tacctgtgtt gattgatttc 1860
atatgatgct cgttatggat atatccaata tccaagtcac ccagctctgg aactgcctgc 1920
ttcacattgc tcatgataat aaagg                                     1945
```

<210> 105

<211> 1829

<212> DNA

<213> Homo sapiens

PF-0509 USN

<220>

<221> misc_feature

<223> Incyte ID No: 2765991CB1

<400> 105

```
gcaacttctt gcctcttctc aatatagaat tcaaagattt gagaggatct gcaagctttt 60
tcctgaaacc aagtacctct ggtgacagtt tacaaagtgg aagcattcca ttggcaaattg 120
aatccttgga gcacaaacct gtatccagtt tagcagaacc tgacttgatc aactttatgg 180
acttcccaaa acataaccag atcataactg aagaaacagg ctctgcagtt gaaccaagtg 240
atgaaataaa gagagccagt ggagatgtcc aaactatgaa aatttcactc gtgcctaata 300
gtttatcaaa gcgaaatgtg tctttgactc gaagtcacag tggtggaggc ccattgcaga 360
atattgactt taccagcga ccgtttcatg gcactctcaac agttagtctt ccaggtagtc 420
tgcaggaagt tgtggatcct ttaggaaaaa gacccaatcc tccccctgtt tctgtgccct 480
acttgagtcc tctagtactc cgtaaagaac ttgaatcttt gctagaaaat gaaggatgatc 540
aggtgattca tacatcttct ttcacatc aacatccaat ctttttcttg aacctcgttt 600
ggtatttcag acgtttggac cttcctagta acttgccagg acttatcctc acatctgaac 660
attgtaatga aggtgtacag cttcctctgt catctctgtc ccaggatagc aaacttgtgt 720
atattcggct gttatgggat aatatcaacc ttcacagga accaagagaa cctctgtatg 780
tctcatggag gaattttaat tctgaaaaga aatcatctct cctgtcagag gaacaacaag 840
aaacaagcac tttagtagaa accatcaggc agagtattca gcacaataat gttcttaaac 900
ccatcaacct actttcacag caaatgaagc caggcatgaa aagacaaagg agtttataca 960
gagaaatcct cttcttatca ttagtgtctc taggaagaga gaatattgat attgaggcat 1020
ttgacaatga atatggaatt gcatacaata gtctgtcttc agagattctt gaaagggtgc 1080
agaaaattga tgctccacca agtgccagtg tcgagtgggt caggaagtgt tttggagcgc 1140
ctctcattta aatagagatt cactagaatg ttgacacaca aggcttgggg attagatttc 1200
atctggaaac attcaagttt ttttttccaa atcgtaagaa ctggtgaata cggaattgaa 1260
gtaactcttg gggacaatat ataatagaatt atgattcata ttgcattacc ttgaaatatg 1320
aagtgccatt tgaatgtccc agggcttatt aatattgaag attttcaacc cctgaactgc 1380
ttttctgcct ctgtggaaaa ctactttggg attcttcagt atttgtagta gtttgataga 1440
aataatgagg aaccatattc attctaggca ttgtttatat ttgaagttac tgagtttgag 1500
gaatggcaaa ttaaatttgc ctaaccccca aaacaaatga aatatctcaa ttataaaagc 1560
aacatggccg ggcacggtgg ctcaggcctg taatcccagc actttgggag gctgagcaag 1620
gtgggtggat cacttgaggc caggagtctg agaccagcct ggccaacacg gtgagaccct 1680
gtctttacta aaaatacaaaa aattagccag gcgcaccact gtagtcccag ctactcaggc 1740
tgaggcagga gaatcgcttg aactgaggca gaggctacag tgagtggaga tcacgccact 1800
gcaactccag cttgggtgac agagtgagc 1829
```

<210> 106

<211> 1353

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2775157CB1

<400> 106

```
cccacgcgtc cgcccacgcy tccgcccacg cgtccgatgc cttgtcccat gctgctgccc 60
tcaggcaagg tcatcgacca gagcacactg gagaagtgtg accgcagtga agccacatgg 120
ggccgagtg cagtgacccc tttcacgggg gtagctttta ctccgcactc tcagcccctg 180
cctcaccct ccctcaaggc ccggattgac ctttctctgc tccagcactc catccctggc 240
tgccacctgc ttgggagagc acagacggca ttggcagtga tcccttcttc cattgttctg 300
ccctctcaga aaaggaagat agagcaggct gaacatgtcc cagacagtaa ctttgggtga 360
aatgcttcct gtttttctgc cacaagccct ttggtcttac ccactacctc agagcacact 420
```


PF-0509 USN

```
gctaagaaaa tgaaagccac caatgagccc agcctgacac atatggactg ttcgacaggt 480
ccactgtccc acgagcagaa gctgtcacia agcttggaat ttgccttggc atccaccctt 540
ggctctatgc cctccttcac ggcacggctg accaggggac agctccagca ccttggcaca 600
agagggagca acacttcctg gaggcctggc accggctcgg agcagcctgg gagcatcctg 660
ggccccgaat gtgcctcctg caaaagagta ttttctccct acttcaaaaa ggagccggtg 720
taccagctgc cctgcggcca cctcctgtgc cgccctgcc tgggtgagaa gcaacgctcc 780
ctgcccatac cgtgcacagc ctgccagcgg ccggttgcta gccaaagcgt gctgcgggtc 840
cacttctgag tgactgacct ccactggagg agaccattg ctgggaggag ctgaggggga 900
acaggagcag ggccacagca cccctgaggt ctggccaggc cccaggcaca gagctgcctg 960
ctccctcccg gggctcttct tcatcacctc acggtatagc acattgcttc tgcgctggtg 1020
gcaatagggc aacaaagcca taggccagag ggcgggggga tgtccctgcc tccctgccac 1080
ccccactgcc tgagcccagg acccactgga gccagcccca ccctaggcag gaagaccctt 1140
gctgaggggc ccccggtgca gtccgcatac cccctgtgcc agcagggcac tgtgggtggc 1200
tcaccctaga ttgtggccca gatctcagga gtctctgcct tcaggggtcat ccaaaagtgg 1260
accttgggag cagtgggggt gtctgtggag tgcattgact agcccccca ctcgcagcct 1320
taataaagcg atggttgacg tctaaaaaaa aaa 1353
```

<210> 107

<211> 1025

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2918375CB1

<400> 107

```
gggccacttc ggggtccccgc tgaccgcctc tctccccgca ccgcccggaca gggaccaggt 60
ctcttggtga tgctgcgtct cagctccgga gctgactaag gctttggaac agaaaccaga 120
tgatgcacag tattattgtc aaagagctta ttgtcacatt cttcttggga attactgtgt 180
tgctgttgct gatgcaaaga agtctctaga actcaatcca aataattcca ctgctatgct 240
gagaaaagga atatgtgaat accatgaaaa aaactatgct gctgccctag aaacttttac 300
agaaggacaa aaattagata gtgcagatgc taatttcagt gtctggatta aaaggtgtca 360
agaagctcag aatggctcag aatctgaggt gtggactcat cagtcaaaaa tcaagtatga 420
ctggtatcaa acagaatctc aagtagtcat tacacttatg atcaagaatg ttcagaagaa 480
tgatgtaaat gtggaatttt cagaaaaaga gttgtctgct ttggttaaac ttccttcttg 540
agaggattac aatttgaaac tggaacttct tcacccata ataccagaac agagcacgtt 600
taaagtactt tcaacaaaga ttgaaattaa actgaaaaag ccagaggctg tgagatggga 660
aaagctagag gggcaaggag atgtgcctac gccaaaacaa ttcgtagcag atgtaaagaa 720
cctatatcca tcatcatctc cttatacaag aaattgggat aaattgggtg gtgagatcaa 780
agaagaagaa aagaatgaaa agttggaggg agatgcagct ttaaacagat tatttcagca 840
gatctattca gatggttctg atgaagttaa acgtgccatg aacaaatcct ttatggagtc 900
gggtggtaca gttttgagta ccaactggtc tgatgtaggt aaaaggaaag ttgaaatcaa 960
tcctcctgat gatatggaat ggaaaaagta ctaaataaat taatttgctc tcaaaaaaaa 1020
aaaaa 1025
```

<210> 108

<211> 3641

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3149729CB1

<400> 108

```

gactacgtcg agccccagcg gctgatggct gtctggcggg cgctgtggat ggaggggggc 60
cgggtccgga cgactccccg gacggcggtt ctctcccgag cggcgccggt ttcggcttgg 120
ggggggcggg gtacagccca tccatgacca tgggcgacaa gaagagcccg accaggccaa 180
aaagacaagc gaaacctgcc gcagacgaag ggttttggga ttgtagcgtc tgcaccttca 240
gaaacagtgc tgaagccttt aaatgcagca tctgcgatgt gaggaaggc acctccacca 300
gaaaacctcg gatcaattct cagctggtgg cacaacaagt ggcacaacag tatgccaccc 360
caccaccccc taaaaaggag aagaaggaga aagttgaaaa gcaggacaaa gagaaacctg 420
agaaagacaa ggaaattagt cctagtgtta ccaagaaaaa taccaacaag aaaaccaaac 480
caagtctga cattctgaaa gatcctccta gtgaagcaaa cagcatacag tctgcaaatg 540
ctacaacaaa gaccagcgaa acaaatacaca cctcaaggcc cgggctgaaa aacgtggaca 600
ggagcactgc acagcagttg gcagtaactg tgggcaacgt caccgtcatt atcacagact 660
ttaaggaaaa gactcgtctc tcatcgacat cctcatccac agtgacctcc agtgcagggt 720
cagaacagca gaaccagagc agctcggggt cagagagcac agacaagggc tcctcccgtt 780
cctccacgcc aaaggcgac atgtcagcag tcaatgatga atctttctga aattgcacat 840
ggaattgtga aaactatgaa tcagggtatg aaattcaaaa cctccacctg cccatgctgc 900
ttgcatccct ggagaatctt ctgtggacat cgacctctta gtgatgctgc caggataatt 960
tctgcttgcc atgggcatct ggccaccaag gaatttcgca ccctgacgat tactcttgac 1020
acttttatgt attccattgt tttatatgat ttctctaaca atcatttata attggatgtg 1080
ctcctgaatc tactttttat aaaaaaaaaa aaaatctgct gtgcacaatt ttccatgtac 1140
attacaactg gttttttgtt tttgtttgtc tgccgggtgg gagggctggg agggggaggg 1200
aacttttatt tattgtgttc aaaaactcca tcttttcagc atatcctttt aagtttagtt 1260
ctttcttcca gttatactat gtactatcag ttttgatata actatatata tataaatata 1320
aaattatata taaagggtta ttgaaacca atccatggca acgctggtgc ttgatacact 1380
gtgaagtga tacaacattg aacagttaca gatctgggac agtcccttct atgaaagtgc 1440
tgaaatttaa ttaaaatcag tcttacatga agtatgttcc aatccatgtg ggaacttgac 1500
tctctcatct gtctaaagag tactggacga tataaaaaata tatatttttt aaacaatgtg 1560
atctcaaatt taaagactgc tccagatagc ctgcatttgc aatggaataa ctgacaaatc 1620
acaagtgggt tagttgggca gggctttgat cattcaaaag taactaaagt agctccagaa 1680
tgccaagtat tcgtgtaaat tacgggttaca tgttatcatt tgctgttctt acataagcac 1740
tcatgaaaat atgggtattct gtaacttgaa ttccatccat tttccagacg tctactcatg 1800
tctgaggtaa atctagaaat tgtcttagtt ttaggattga aacagtctat aaactgtatt 1860
tttgggtccat ccaggaagct agtcccttgt ttctccttct tacatgacat tgcagtgggtg 1920
gtttctgtaa ttaaaatttg tttgctcat gtcccttctg ctgataaacc ttcactctac 1980
cgattcagtt gtgagcattc ttttttccct tctcaaaacc tactatgatt tgttttactg 2040
aacaagggtt atcaaccaca catccagtc tgacatggag cttttcagtg tttggagaca 2100
tttctcaatc ccctgctgtg gtaggaactc cagtggtgaa cggcttgccg gcctgcagcc 2160
agagtgcag ggaaagctcg tacttactgc gagcagcatg taatcttttt tcttctgga 2220
cataaagata gcttgagtaa actgttctat ttcatctct tcaacttttt tactgtcttg 2280
caaaaaaaaa aaataataat aataataatc aaagaccact aataagattc cacctctcct 2340
tattaaaaata attttttaaa attttgtttt gcttttgttt ggatgtgggg tctctcttct 2400
atttgacttt tacatttaga tacagagttt gtagtacttc agagacattt caagcatgag 2460
aatttgaggt tacctctctt tatttgacct ttagggactc acgggagggc agcctgattt 2520
gtaatgaagc accacatttt ggtgttaaaa acctggtttg cttaataata gcagtaattt 2580
ctgtctgtgg aggcaacaaa taaaaaaatt aacagcttga attgagtagc caacaggaaa 2640
ggttcctttc acatttacat taaaactatt ctgtagtcac taatgtacca taatttaaat 2700
tcttttctca aaggtataga ttataaagca gtgccatttg ttgctgtggg cctattctca 2760
aatgcatgga caatgttccc ccctttttaa aataatgctt gtgtctggga tgcaagcttt 2820
gcttatcttt ttaatacat ttttaagta tttattaatg aaccaaagga aatcagatgc 2880
tttctataag catcagaata tataatacat agtgatttga ctatgaattt taaatccaca 2940
ttttaatat ggtgggatat tgcaaagaca ttcttctaa agttttaata ttccttttat 3000
taagggtctc agggagggtta aattagtcag ccataatttat tttccagagg ttttaagaaat 3060
tgctgttttt aactttttga aaaaacttaa atgccaccaa actcatgtag gttgcactgc 3120
ttattgaacc aataactgtt ggtatgcact ttgttcagac acactgtgta ctttttcaaa 3180

```


PF-0509 USN

```
aactagtttc atgtaaagtg attggacccc atagattagt ggaaaaagct gattaaccag 3240
ctactcatag gctgctaatt cattcatgcc aatgttttgg tttttcagtt ttgcctccgt 3300
gataaattaa agaatgggga ggggtgaagg aaggggaaga agattgcttt agaacaagtg 3360
gcatgaaatt accatctttg tagaaaccgc agctaacagt gggagttatc taagcaatca 3420
gatgttacag ggccagccct ttagctgctg tgggtgattc tgttgggtag tgaggtagta 3480
ggtactttat agacttttaa ttttggaaat tgatgacatc cctcaggcat gtattctggg 3540
aatggaattc ctgtaacttc ctgtgtctgc agtatgccct acaattagta ggcagcgtgt 3600
aaaaacacta gtgtagatta taaaggtata cattaaaaag g 3641
```

<210> 109

<211> 699

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3705895CB1

<400> 109

```
gccgcgcgca cacgctcaag gccgggatgg cggcggcgcc ggccggcagga agcgggacgc 60
cccagagagga ggagggacct gctggggagg cagcggcctc gcagccccag gcccacga 120
gtgtgcctgg ggctcgtctc tcgaggttgc ctctggcgcg agtgaaggcc ttggtgaagg 180
cagatcccga cgtgacgcta gcgggacagg aagccatctt cattctggca cgagccgagg 240
aactgtttgt ggagaccatt gcaaaagatg cctactgttg cgctcagcag ggaaaaagga 300
aaacccttca gaggagagac ttggataatg caatagaagc tgtggatgaa ttgtcttttc 360
tggaaggtag tttagattga ttgccgagcg gggcagtttt gtgagccttc atctgaagcc 420
ttcagttcac ccctctgcac aggcctcagc tttgaagaac ggagtctttg cacttacaca 480
cactcttcct gttctgcctt cacctatgcc gggataagca gagatctcat caattagctc 540
ttctctgcaa ggtcttcac tatttctgtc tgtcttccat atcaagcctg gatgcagctg 600
ctgctgctta gagcagagat gaagaaagtg ttctgcataa gtggcttcct gaatgatgag 660
gaccagaata aagggttttg atcaacctca aaaaaaaaaa 699
```

<210> 110

<211> 2186

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 003256CB1

<220>

<221> unsure

<222> 1925, 2088, 2092, 2114-2117

<223> a, t, c, g, or other

<400> 110

```
attccgtaaa ccctgtttgc gtattttgac tgtatgttct ttaaagattt ctgcagagct 60
caagtgaagt tgagagccca gctgtgccat cttcatcaag acagccccct gctcagcctc 120
cacggacagg atccgagttc cccaggctgg agggagcccc ggccacaatg acgcccagc 180
tggggagagg tgtcttgga ggagatgatg ttctctttta tgatgagtca ccaccaccaa 240
gacaaaaact gagtgtttta gcagaagcca aaaagtttagc tgctatcacc aaattaaggg 300
caaaaggcca ggttcttaca aaaacaaacc caaacagcat taagaagaaa caaaaggacc 360
ctcaggacat cctggaggtg aaggaacgtg tagaaaaaaa caccatgttt tcttctcaag 420
```



```

ctgaggatga attggagcct gccaggaaaa aaaggagaga acaacttgcc tatctggaat 480
ctgaggaatt tcagaaaatc ctaaaaagcaa aatcaaaaaca cacaggcatc ctgaaagagg 540
ccgaggctga gatgcaggag cgctactttg agccactggg gaaaaaagaa caaatggaag 600
aaaagatgag aaacatcaga gaagtgaagt gccgtgtcgt gacatgcaag acgtgcgcct 660
ataccacctt caagctgctg gagacctgcg tcagtgcgca gcatgaatac cactggcatg 720
atgggtgtgaa gaggtttttc aaatgtccct gtggaaacag aagcatctcc ttggacagac 780
tcccgaacaa gcactgcagt aactgtggcc tctacaaatg ggaacgggac ggaatgctaa 840
aggaaaaagac tgggtccaaag ataggaggag aaactctgtt accaagagga gaagaacatg 900
ctaaatttct gaacagcctt aaataacccg aacttcagac attttccac agacttctctg 960
gcctcctgtg actctggaaa gcaaaggatt ggctgtgtat tgtccattga ttcttgattg 1020
acgccgtcaa aaacaaatgc ttgttaagcc cataagcttt gcctgcttac tttctgccat 1080
tgggttgggt tgataccaca tttaacattg acatttaagt ggaaaaccaa gttatcattg 1140
tcttttctaa gctcagtgtg gatgattgca ttacttcatt cactgaagtt tttgccccaa 1200
aattggaagg taaacagaga gctatgtttc tgtatctttt ggttatagag tgttcacttc 1260
tttatcataa caaaattcta gtgtttatac gaacaccagc aggcaaaaga atttggctta 1320
attctcactc caggtaagta gcttaacttc tgggcttcag ttttctcatc tgtaaaatca 1380
ggaagattgg actaagtgat cctgaaatgt attttttagc actggatttc taaaaataat 1440
aaaactttcc catctagata atgatgatca catagtcttg atgtacggac attaaaagcc 1500
agatttcttc attcaattct gttatctctg ttttactctt tgaaattgat caagccactg 1560
aatcactttg catttcagtt tatatataga gagagaaaga aggctgtctg ctcttacatt 1620
attgtggagc cctgtgatag aaatatgtaa aatctcatat tatttttttt ttaatttttt 1680
ttatttttta tgacaggggtc tcactatgtc accctggctg gagtgcagta gtgcgacgc 1740
ggcacactgc agccttggct tccctgggct caagcagtc tcccacctca gtctcccaa 1800
tagctaggac tacaggcgtg cgtgaccaag cccagcta at ttttgcat tttgtagaga 1860
tggggttttg ccatgttgct caggctggct tcaaactcct gagcactagc aatccaccac 1920
ctcgntttca aaaaagaaaa aaaaaccccg gggggggggc ccgaactcaa ttggcccaa 1980
agggggggcg gaataaaaaa tcaggggggc ggggggtttt aaaaaggcgg aaaactgggg 2040
aaacacctct ggggggtacc ccaagttaaa ggggcgcctt caggcctngt gnccggtgt 2100
agagggggat gacnnnngca gtattttctg gggagtaaga ggccgcgagt gcgtgcaggg 2160
aggactgtgc gagtgagggg aggggtg
2186

```

<210> 111

<211> 2133

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 156986CB1

<400> 111

```

gttcctcgtc tgccagccgg cttggctagc gcgcggcgcc cgtggctaag gctgctacga 60
agcgagcttg ggaggagcag cggcctgcgg ggcagaggag catcccgct accaggtccc 120
aagcggcgtg gcccgcggt catggccaaa ggagaaggcg ccgagagcgg ctccgcggcg 180
gggctgctac ccaccagcat cctccaaagc actgaacgcc cggcccaggt gaagaaagaa 240
ccgaaaaaga agaaacaaca gttgtctgtt tgcaacaagc tttgctatgc acttggggga 300
gccccctacc aggtgacggg ctgtgccctg ggtttcttcc ttcagatcta cctattggat 360
gtggctcagg tgggcccttt ctctgcctcc atcatcctgt ttgtgggccc agcctgggat 420
gccatcacag acccctggt gggcctctgc atcagcaaat cccctggac ctgcctgggt 480
cgccttatgc cctggatcat cttctccacg cccctggccg tcattgccta cttcctcatc 540
tggttcgtgc ccgacttccc acacggccag acctattggg acctgctttt ctattgcctc 600
tttgaaacaa tggtcacgtg tttccatggt cctactcgg ctctcaccat gttcatcagc 660
accgagcaga ctgagcggga ttctgccacc gcctatcgga tgactgtgga agtgctgggc 720
acagtgtctg gcacggcgat ccagggacaa atcgtgggccc aagcagacac gccttgtttc 780

```



```

caggacctca atagctctac agtagcttca caaagtgcc accatacaca tggcaccacc 840
tcacacaggg aaacgcaaaa ggcatacctg ctggcagcgg gggtcattgt ctgtatctat 900
ataatctgtg ctgtcatcct gatcctgggc gtgcgggagc agagagaacc ctatgaagcc 960
cagcagtctg agccaatcgc ctacttcggt ggcctacggc tggatcatgag ccacggccca 1020
tacatcaaac ttattactgg ctctctcttc acctccttgg ctttcatgct ggtggagggg 1080
aactttgtct tgttttgac ctacaccttg ggcttcgca atgaattcca gaatctactc 1140
ctggccatca tgctctcggc cactttaacc attcccatct ggcagtgggt cttgaccggg 1200
tttggaaga agacagctgt atatgttggg atctcatcag cagtgccatt tctcatcttg 1260
gtggccctca tggagagtaa cctcatcatt acatatgcgg tagctgtggc agctggcatc 1320
agtgtggcag ctgccttctt actacccttg tccatgctgc ctgatgtcat tgacgacttc 1380
catctgaagc agccccactt ccatggaacc gagcccatct tcttctcctt ctatgtcttc 1440
ttcaccaagt ttgcctctgg agtgtcactg ggcatttcta ccctcagtct ggactttgca 1500
gggtaccaga cccgtggctg ctgcgagcgg gaacgtgtca agtttacact gaacatgctc 1560
gtgaccatgg ctcccatagt tctcatcctg ctgggcctgc tgctcttcaa aatgtacccc 1620
attgatgagg agaggcggcg gcagaataag aaggccctgc aggcactgag ggacgaggcc 1680
agcagctctg gctgctcaga aacagactcc acagagctgg ctagcatcct ctaggggccg 1740
ccacgttgcc cgaagccacc atgcagaagg ccacagaagg gatcaggacc tgtctgccgg 1800
cttgctgagc agctggactg caggtgctag gaagggaact gaagactcaa ggagggtggc 1860
caggacactt gctgtgtca ctgtggggcc ggtgctctg tggcctcctg cctccccctt 1920
gcctgcctgt ggggccaagc cctggggctg ccactgtgaa tatgccaagg actgatcggg 1980
cctagcccgg aacactaatg tagaaacctt ttttttaca gagcctaatt aataacttaa 2040
tgactgtgta catagcaatg tgtgtgatg tatatgtctg tgagctatta atgttattaa 2100
ttttcataaa agctggaaaag caaaaaaaaaaaa aaa 2133

```

<210> 112

<211> 1649

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 319415CB1

<400> 112

```

cacgtgtttg gtttgctctg agcctaacct agagtgtctg cagcagtctt tcagttgagc 60
ttggggactg cagctgtggg gagatttcag tgcattgcct cccctgggtg ctcttcatct 120
tggattattc cttgggcctg aatgacttga atgtttcccc gcctgagcta acagtccatg 180
tgggtgattc agctctgatg ggatgtgttt tccagagcac agaagacaaa tgtatattca 240
agatagactg gactctgtca ccaggagagc acgccaagga cgaatatgtg ctatactatt 300
actccaatct cagtgtgcct attgggcgct tccagaaccg cgtacacttg atgggggaca 360
tcttatgcaa tgatggctct ctctgtctcc aagatgtgca agaggctgac cagggaaacct 420
atatctgtga aatccgcctc aaaggggaga gccagggtgt caagaaggcg gtggtactgc 480
atgtgcttcc agaggagccc aaagagctca tgggtccatgt ggggtgattg attcagatgg 540
gatgtgtttt ccagagcaca gaagtgaac acgtgaccaa ggtagaatgg atattttcag 600
gacggcgcgc aaaggaggag attgtatttc gttactacca caaactcagg atgtctgtgg 660
agtactccca gagctggggc cacttccaga atcgtgtgaa cctgggtggg gacattttcc 720
gcaatgacgg ttccatcatg cttcaaggag tgagggagtc agatggagga aactacacct 780
gcagtatcca cctaggggaa ctggtgttca agaaaaccat tgtgtgtcat gtcagcccg 840
aagagcctcg aacactggtg accccggcag ccctgaggcc tctggtcttg ggtggtaatc 900
agttggtgat cattgtggga attgtctgtg ccacaatcct gctgtccctt gttctgatat 960
tgatcgtgaa gaagacctgt ggaaataaga gttcagtga ttctacagtc ttggtgaaga 1020
acacgaagaa gactaatcca gagataaaa aaaaaccctg ccattttgaa agatgtgaag 1080
gggagaaaca catttactcc ccaataattg tacgggaggt gatcgaggaa gaagaaccaa 1140
gtgaaaaatc agaggccacc tacatgacca tgcaccagtt ttggccttct ctgaggtcag 1200

```


PF-0509 USN

```
atcggaaacaa ctcaacttgaa aaaaagtcag gtggggggaat gccaaaaaca cagcaagcct 1260
tttgagaaga atggagagtc ccttcacatc agcagcggtg gagactctct cctgtgtgtg 1320
tcctgggcca ctctaccagt gatttcagac tcccgccttc ccagctgtcc tcctgtctca 1380
ttgtttggtc aatacactga agatggagaa tttggagcct ggcagagaga ctggacagct 1440
ctggaggaac aggcctgctg aggggagggg agcatggact tggcctctgg agtgggacac 1500
tggccctggg aaccaggctg agctgagtgg cctcaaacc cccgttgat cagaccctcc 1560
tgtgggcagg gttcttagtg gatgagttac tgggaagaat cagagataaa aaccaacca 1620
aatcattcct ctggcaaaaa aaaaaaaaaa 1649
```

<210> 113

<211> 714

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 635581CB1

<220>

<221> unsure

<222> 531

<223> a, t, c, g, or other

<400> 113

```
cttgtgggct aggtgcccag gagccactga gaacagaaga cttgttgctg ctctagagga 60
cctatggtag ggcagacaga ggatgataca gctcagcagc ttgtccctac gtgtggcatg 120
aaaggtgttg gagagagaat agtggagtat gtgtccaaca ttccagcact tcagagagct 180
acccccagg gactggcctt tgtttcacct gacttggagc acaggcagga gtggacatac 240
tctaaaagcc cactgatggg aaagggcacc aggttggagg cctctgaaaa caagagagct 300
gggtggcctt cagcagctcc agagaacctg aagtaccaca gacagatagc acagggagca 360
aaagattatg agatcctgaa aaaggaaacg aacaagttca tcttgagaat ttatacacac 420
tggtcgagaa gaagcatcct caggaaaggt tcaaaaggca tgcagaatct ctagtccaggc 480
cgatcagtgga ggatctttct ctgtacagag ccagaccaca aagactggga ngggtgatat 540
tttttcaaat gcttggatcc caacatgatg ttaaaagaca caccaagaaa taaggaaaca 600
tggcacaatc aaagagtcaa aattatccag gaccctactt taaggaacct cagttatctt 660
ccattatcct cagaaggatt tccagcctaa ccaccattaa acatgttcac gtgg 714
```

<210> 114

<211> 1165

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 921803CB1

<400> 114

```
cgtacgagat gcgaggagg agtggagaga gggcaggtaa ttcggaggag ggaagaggca 60
gccccctgcc cggccagctc gtgactaatt taggcaaaag gcagcctgga gctattttcca 120
ttcggcggcg ggaacagggt cgggcgcctc cgccccatcc ccaggggccg cctcccccg 180
ggcggcctcc aggctgccga gacctataaa ggcgccaggt tttctcaatg aagccgggac 240
gactccgga gcgcaactgc tggtcgacc ctaccgggc tgccttgaa gtcgtccccg 300
ccgccccctc gcaccggcat gaagctcatc gtgggcatcg gaggcagac caacggcggc 360
aagaccacgc tgaccaacag cctgctcaga gcctgcccc actgctgcgt gatccatcag 420
```


PF-0509 USN

```

gatgacttct tcaagcccca agaccaaata gcagttgggg aagacggctt caaacagtgg 480
gacgtgctgg agtctctgga catggaggcc atgctggaca ccgtgcaggc ctggctgagc 540
agccccgaga agtttgcccc tgcccacggg gtcagcgtcc agccagaggc ctcggacacc 600
cacatcctcc tcctggaagg cttcctgtct tacagctaca agcccctggg ggacttgtac 660
agccgcccgt acttcctgac cgtcccgtat gaagagtgc aagtgaggag aagtaccgcg 720
aactacacag tccctgatcc ccccgccctc ttcgatggcc acgtgtggcc catgtaccag 780
aagtataggc aggagatgga ggccaacggg gtggaagtgg tctacctgga cggcatgaag 840
tcccagagagg agctcttccg tgaagtccg gaagacattc agaactcgct gctgaaccgc 900
tcccaggaat cagccccctc cccggctcgc ccagccagga cacagggacc cggacgcgga 960
tgccggccaca gaacggccag gcctgcagcg tcccagcagg acagcatgtg agcgtttccc 1020
tatgggggtg tctgtacgta ggagagtgga ggccccactc ccagttgggc gtcccgagc 1080
tcagggactg agccccaaga cgcctctgta acctcgctgc agcttcagta gtaaactggg 1140
tcctgttttt tataaaaaaa aaaaa 1165

```

<210> 115

<211> 2143

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1250492CB1

<400> 115

```

tgcagcaagt gctgcgagga cttggaggag ggcagggagg ggcaggatgt ccctgtcaag 60
gctcctgaga cctttgataa cataaccatt agcagagagg ctcagggtga ggtccctgcc 120
tcggactcaa agaccgaatg cacggccttg taggggacgc cccagattgt cagggatggg 180
gggatgggtc ttgagttttg catgctctcc tccctcccac ttctgcacc tttcaccacc 240
tcgaggagat ttgctcccca ttagcgaatg aaattgatgc agtcctacct aactcgattc 300
cctttggctt ggtgggtagg cctgcagggc acttttattc caaccctgg tcaactagta 360
atcttttact ccaggaaggc acaggatggt acctaaagag aattagagaa tgaacctggc 420
gggacggatg tctaatacctg cacctagctg ggttggtcag tagaacctat tttcagactc 480
aaaaaccatc ttcagaaaaga aaaggcccg ggaaggaatg tatgagaggc tctcccagat 540
gaggaagtgt actctctatg actatcaagc tcaggcctct cccttttttt aaaccaaagt 600
ctggcaacca agagcagcag ctccatggcc tccctgcccc agatcagcct gggtcagggg 660
acatagtgtc attgttttga aactgcagac cacaagggtg ggttctatcc cacttccctag 720
tgctccccac attccccatc agggcttcct cacgtggaca ggtgtgctag tccaggcagt 780
tcacttgcag tttcctgtct ctcatgtctt cttgtcttgc gccacgcctg aactagagt 840
caggctggat acatgtgtct acctgctgct cttgtcttcc taagagacag agagtggggc 900
agatggagga gaagaaaagt aggaatgagt agcatagcat tctgccaaaa gggccccaga 960
ttcttaattt agcaaaactaa gaagcccaat tcaaaagcat tgtgggctaaa gtctaacgct 1020
cctctcttgg tcagataaca aaagccctcc ctgttggtatc ttttgaaata aaacgtgcaa 1080
gttatccagg ctctagtcct gcatgctgcc accttgaatc ccaggagta tctgcacctg 1140
gaatagctct ccacccctct ctgcctcctt actttctgtg caagatgact tcctgggtta 1200
acttccctct tccatccac ccacccactg gaatctcttt ccaaacattt tccattttc 1260
ccacagatgg gctttgatta gctgtcctct ctccatgcct gcaaagctcc agatttttgg 1320
ggaaagctgt acccaactgg actgcccagt gaactgggat cattgagtac agtcgagcac 1380
acgtgtgtgc atgggtcaaa ggggtgtgtt ccttctcatc ctagatgcct tctctgtgcc 1440
ttccacagcc tcctgcctga ttacaccact gccccgccc caccctcagc catcccaatt 1500
cttcctggcc agtgcgctcc agccttatct aggaaaggag gagtgggtgt agccgtgcag 1560
caagattggg gcctccccca tcccagcttc tccaccatcc cagcaagtca ggatatcaga 1620
cagtccctcc ctgaccctcc cccttgtaga tatcaattcc caaacagagc caaatactct 1680
atatctatag tcacagccct gtacagcatt tttcataagt tatatagtaa atgggtctgca 1740
tgatttgtgc ttctagtgtc ctcatttggg aatgaggcag gcttcttcta tgaatgtaa 1800

```


PF-0509 USN

```

agaaagaaac cactttgtat attttgtaat accacctctg tggccatgcc tgccccgccc 1860
actctgtata tatgtaagtt aaacccgggc aggggctgtg gccgtctttg tactctggtg 1920
atttttaaaa attgaatctt tgtacttgca ttgattgtat aataattttg agaccaggtc 1980
tcgctgtggt gctcaggctg gtctcaaaact cctgagatca agcaatccgc ccacctcagc 2040
ctcccaaagt gctgagatca caggcgtgag ccaccaccag gcctgattgt aatttttttt 2100
tttttttttt tactgggttat gggaaggagg aaataaaatc ata 2143

```

<210> 116

<211> 1010

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1427838CB1

<400> 116

```

atcactagta gctgggtgctc caggctggcg gcgctcacct ttctcctagc cgggtgaccc 60
aggggattta ttttatgttg gctttctctg aaatgccaaa gccacccgat tattcagagc 120
tgagtgactc ttttaacgctt gccgtgggaa caggaagatt ttcgggacca ttgcacagag 180
catggagaat gatgaacttc cgtcagcgga tgggatggat tggagtggga ttgtatctgt 240
tagccagtcg agcagcattt tactatgttt ttgaaatcag tgagacttac aacaggctgg 300
ccttggaaca cattcaacag caccctgagg agccccttga aggaaccaca tggacacact 360
ccttgaaagc tcaattactc tccttgccct tttgggtgtg gacagttatt tttctggtac 420
cttacttaca gatgtttttg ttcctatact cttgtacaag agctgatccc aaaacagtgg 480
gctactgtat catccctata tgcttggcag ttatttgcaa tcgccaccag gcatttgtca 540
aggcttctaa tcagatcagc agactacaac tgattgacac gtaaaatcag tcaccgtttt 600
ttccctacga ttacaaaact gccagtccta tatggagtct gatcacaaga ctgcagtttc 660
ttcacagatc tcaggaagtt gtcgtggggc agaggctttt taaaaacatg tgattaggga 720
gctatcttta tctgaataat aacgaatttt taggtaaaac ctgagataga gtactacaaa 780
atcatgttga tgacttcaga ttttggaagt taaatcatgt ctgttatttg cattcttttag 840
aaacttgact aagtacctga attcatattt ctattctact gtgcaacata gtgatgattc 900
agaaattttt cctttgggga aaaaaatgaa tatgaacatt tccattgtgt taagtgtaaa 960
aaggtccaga catgatcata aaattttaat tttatacaat aaaaaaaaaa 1010

```

<210> 117

<211> 2059

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1448258CB1

<400> 117

```

aggggctcag atgactcagt gccagttatt tcatttaaag atgctgcttt tgatgatgtc 60
agtgggtactg atgaaggaag acctgatctt cttgtaaatt tacctgggtga attggagtca 120
acaagagaag ctgcagcaat gggacctact aagtttacac aaactaatat agggataata 180
gaaaataaac tcttggaagc ccctgatgtt ttatgcctca ggcttagtac tgaacaatgc 240
caagcacatg aggagaaaagg catagaggaa ctgagtgatc cctctgggcc caaatcctat 300
agtataacag agaaacacta tgcacaggag gatcccagga tgttatttgt agcagctgtt 360
gatcatagta gttcaggaga tatgtctttg ttaccagct cagatcctaa gtttcaagga 420
cttggagtgg ttgagtcagc agtaactgca aacaacacag aagaaagctt attccgtatt 480
tgtagtccac tctcaggtgc taatgaatat attgcaagca cagacacttt aaaaacagaa 540

```



```

gaagtattgc tgtttacaga tcagactgat gatttggcta aagaggaacc aacttcttta 600
ttccagagag actctgagac taagggtgaa agtgggttag tgctagaagg agacaaggaa 660
atacatcaga tttttgagga ccttgataaa aaattagcac tagcctccag gttttacatc 720
ccagagggct gcattcaaag atgggcagct gaaatggtag tagcccttga tgctttacat 780
agagagggaa ttgtgtgccg cgatttgaac ccaaacaaca tcttattgaa tgatagagga 840
cacattcagc taacgtattt tagcaggtag agtgaggtag aagattcctg tgacagcgat 900
gccatagaga gaatgtactg tgccccagag gttggagcaa tcaactgaaga aactgaagcc 960
tgtgattggg ggagtttggg tgctgtcctc tttgaacttc tcaactggaa gactctggtt 1020
gaatgccatc cagcaggaat aaatactcac actactttga acatgccaga atgtgtctct 1080
gaagaggctc gctcactcat tcaacagctc ttgcagttca atcctctgga acgacttggg 1140
gctggagttg ctgggtgttg agatatcaaa tctcatccat tttttacccc tgtggattgg 1200
gcagaactga tgagatgaac gtaatgcagg gttatcttca cacattctga tcttctctgt 1260
gacaggcatc tccagcactg aggcacctct gactcacagt tacttatgga gcaccaaagc 1320
atttgataaa agaccgttat aggaaatggg ggggaaatgg ctaaaagaga acaattcgtt 1380
tacaattaca agatattagc taattgtgcc aggggctggt atatacatat atacacaacc 1440
aagggtgtgat ctgaatttaa tccacatttg gtgttcgaga tgagttgtaa agccaactga 1500
aagagttcct tcaagaagtt cctctgatag gaagctagaa gtgtagaatg aagttttact 1560
tgacagaagg acctttacat ggcagctaac agtgcttttt gctgaccagg attggtttat 1620
atgattaaat taatatattg ttaataatac actaaaagta tatgaacaat gtcacatcat 1680
aaacttaaaa gcgagaaaaa agaataatac cataatttct gacggaaaac ctgtaccctg 1740
atgctgtata atgtatgttg aatgtggctc cagattattt ctgtaagaag acactccatg 1800
ttgtcagctt tgtactcttt gttgatactg ctattttaga gaagggttca tataaacact 1860
cactctgtgt cttcaacagc atctttcttt ccccatcttt ctattttctg caccctctgc 1920
ttgttccctc atattctgtt cttccgactc ctgctaacac acatgcaaca aaaaagggaa 1980
gggagtgctt atttcccttt gtgtaaggac taagaaatca tgatatcaaa taaacatggg 2040
gaaacattaa aaaaaaaaaa
2059

```

<210> 118

<211> 2273

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1645941CB1

<400> 118

```

ctgagagagc tgggggagga gcgcggcggc gacggcggcg gtggctctag aaggggaggt 60
ggaggatctc ctttcctctt ctcagaccg ggagcgtag ggacgcggac ccggagctgg 120
ggcgacgagg cgattgcggg ggcctgggct agctgctggc taccaatatt ctactttctg 180
actctatgaa tgtgactacc ctggttacct catataatct ccctggaaaa ggagacatga 240
atgtctgcaa tgatacttcc tgacaagaag ttgatacaag aaaaggaaag gagattaaca 300
gctagtgagc agaatttcga acagcaggat ttcgtatttt ttgcttccaa ctgcacactt 360
ccgttgccca cttttaaatc agagatacct acactcaaaa ccagacaag gcaaaaggat 420
acttttcttg tatatttttt gagatcgaag aaacgacaat gtccaggaaa cagaaccaga 480
aggattcatc aggattcatt ttgatttgc agtccaatac cgtactggcc caggaggagg 540
cttttgagaa catgaaagag aagataaatg cggtagctgc aatagttcct aataagagca 600
acaatgaaat tatcctgggt ttgcagcact ttgataactg tgtggacaaa acagtacaag 660
cattcatgga aggtagtgcc agtgaagtac tcaaagaatg gacagtaaca ggcaagaaaa 720
agaacaaaaa gaagaaaaac aaaccgaaac ctgccgcaga accaagtaac ggcatcccag 780
attccagtaa atcagtttcc attcaagagg aacagtctgc gccttcttca gagaaaggtg 840
gtatgaatgg ctaccatgtc aatggtgcc tcaatgacac tgagtctgtg gactcactca 900
gtgaagggtt ggagacactt tcaatagatg ccagagaatt ggaggatccc gactctgcca 960
tgctagatac gctggataga acaggatcca tgctgcagaa tgggtgtctt gattttgaga 1020

```



```

ccaagtcttt gactatgcac tctattcaca attctcaaca acccaggaat gctgccaaat 1080
ctctctcaag acctaccaca gaaactcagt tttcaaatat ggggatggaa gatgttcccc 1140
tcgccaccag taaaaagcta agttccaata ttgaaaaatc tgtaaaagac ctccagcgct 1200
gcacagtgtc tcttgacagg tatcgagttg tagttaaaga agagatggat gcctccatta 1260
agaaaatgaa acaagccttt gctgaattgg agagctgttt aatggatcga gaagtggcgt 1320
tgcttgctga aatggacaaa gtgaaagctg aagcaatgga aattttgctc agccgacaaa 1380
agaaggctga acttctaaag aagatgactc atgtggctgt tcaaagtca gagcagcaat 1440
tggttgagct cagagctgat atcaagcact ttgttagtga acgtaaatat gatgaggatc 1500
tgggacgagt agccccgttc acctgtgatg tagagaccct aaagaagagc attgattcat 1560
ttggacaagt gtctcatcca aagaacagct attcgaccag atcccgatgt agctcagtta 1620
catctgtgtc cttgagtagc ccaagtgatg cctctgtctc ttctctctcc acctgtgcct 1680
ctcctcccag ccttacaagt gctaacaaga aaaactttgc accgggagag actcctgcag 1740
ccatagcaaa ctccagtggc cagccctacc agccacttcg ggaggtattg ccagggaca 1800
gacgaggagg acagggctat aggccacaag gccaaaagtc caatgacccc atgaaccaag 1860
ggcgggcatga cagtatgggt cgttacagaa acagctcgtg gtattcatct ggttccaggt 1920
atcagagtgc tccatctcag gcaccaggaa acaccattga aagaggccag actcactctg 1980
cagggaccaaa tggaactgga gtcagcatgg agcccagccc tcccacgcct tcattcaaaa 2040
aggggctccc ccagcgcaaa cccaggacct ctcagactga agccgtgaac tcttgagaga 2100
aatccagtt ggcctctctc ctctatccac acaattcaac ttgataactg gacttttagga 2160
aacttacagt tagatgtaat aacaaaaaga agtttatgcg tatcactttt tgtgccattc 2220
taagtatttt tggtttcttg tctccttatt tcctctttac catttttggg ggg 2273

```

<210> 119

<211> 1772

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1646005CB1

<400> 119

```

ccctgtgtgc atcaaaaataa aagctttctg aaggtggagg catctgatac ccagagtgtc 60
gctatcagcc ggcacggtgg gccgctggtg gcaggagcgt cgagaaggcc agctcgcttc 120
ctatccggga ttcagaatca gctatggaaa cttgagagac ctagagaaaa taacttcttt 180
cactttgaac tgattctttg cttcataaga aaagtattat ccagccacaa aaatggtcaa 240
aattcagatc tacaaaagcc tgtcaggcag aaactgacct cacttaggcc acgccaatga 300
gcaagtcatc aaagcagcca agacaggctc tgtggggggc acccatgcac agggcccagc 360
ctcgggtcct aaccccgctt atgctttccg ccaccataaa gagggccatc tgggtaagac 420
ctgtcccgcc tgctgtgggg tattagggca gatggggtct gaggggtctg agggctctga 480
gagcagctgg cagctcaagg acatccggag ttggaggatg gagcaatgca ggcccttgtg 540
gtaaagacag tcctgcagcc gcgcaggcag ggatgctgca agtggagtgc caggcgggtg 600
cggagccctg tgggactgtg gaggggtcag agggaagcca ggattttggg gtctctgaga 660
gtttggagaa ggggaagaag attaaagctt gtttcaaaag tttctaatac ggtgggcagg 720
gccaaggggtg gctgtggggg gagacctatg actcagggtg gccactgtt actctattga 780
tttttgggcg tttttttcca aattgattat tcttgctgaa tgagacctga gtccttgact 840
gtccccctta agccacctga cttgttttca gttccactgg cctgtcgggc tgtttttctac 900
tcaactccac tcttgcttgt ctgccctccc tgccctggggc ccagccagca gtcagctcaa 960
gggccagatg aattgggtgg ctgtgctctg cccactgggc atcgtgtgga tgggtgggtga 1020
ccagccccct caggtgtcga gccaggcctc aagcettgct gtgtacctca gagcagctcc 1080
gtaccctgat gtcacagcaa agaaacttag acatgacaca aactgtggct tcccaaggca 1140
gcaaagaatg gccaggggtc atgagggccg tgccccactt ttggacagac ctactctaaa 1200
gtcacgctac ctgctgtgaa atcataaaat caacactttt gaggagatca cagctatgcc 1260
ttcgtaacac agcccagctc gaccagatag acggtgcctc gtgaccgaa aacaagcccc 1320

```


PF-0509 USN

```

cggcccccca ccatgtgtgt gagccttacc ttggactgca cgctgagggg gcggatggaa 1380
gggacagcaa ggaggccgaa ggcctcgtag aggtactcat tggaggagct tcccttcagg 1440
agggcgaaag gaatgaggtg gagctcccc tccagaacca ggatgagctg ccggtgccgg 1500
cccacggggc cgctggagtg catcaggccc tatggagcaa gcacggagag gctgacatgg 1560
gtggcccagc aggcagggtt ttcaggcacc aggacaaccc ctgagcccta cctggatgac 1620
accagacaga acaggttaag cctgttgggg gtttggggcg ccaatgggga atgggccccaa 1680
gtggcaaac ctgcaggaac cgggaacaaa cttggcatgc tccgctcgtt gaacttggca 1740
aagggtctggc ccttgggaagc attcaatctt gc 1772

```

<210> 120

<211> 2260

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1686561CB1

<400> 120

```

gagaaggtgg agggagacga gaagccgccg agagccgact accctccggg cccagtctgt 60
ctgtccgtgg tggatctaag aaactagaat gaaccgaagc attcctgtgg aggttgatga 120
atcagaacca tacccaagtc agttgctgaa accaatccca gaatattccc cggaagagga 180
atcagaacca cctgtcccaa atataaggaa catggcaccc aacagcttgt ctgcaccac 240
aatgcttcac aattcctccg gagacttttc tcaagctcac tcaaccctga aacttgcaaa 300
tcaccagcgg cctgtatccc ggcaggtcac ctgcctgcgc actcaagttc tggaggacag 360
tgaagacagt ttctgcagga gacaccagc cctgggcaaa gctttccctt ctgggtgctc 420
tgcagtcagc gagcctgcgt ctgagctctgt ggttggagcc ctccctgcag agcatcagtt 480
ttcatattatg gaaaaacgta atcaatggct ggtatctcag ctttcagcgg cttctcctga 540
cactggccat gactcagaca aatcagacca aagtttacct aatgcctcag cagactcctt 600
gggcggtagc caggagatgg tgcaacggcc ccagcctcac aggaaccgag caggcctgga 660
tctgcccaacc atagacacgg gatatgattc ccagccccag gatgtcctgg gcatcaggca 720
gctggaaaagg cccctgcccc tcacctccgt gtgttacccc caggacctcc ccagacctct 780
cagggtccagg gagttccctc agtttgaacc tcagaggtat ccagcatgtg cacagatgct 840
gcctcccaat ctttccccac atgtcccatg gaactatcat taccattgtc ctggaagtcc 900
cgatcaccag gtgccatatt gccatgacta ccctcgagca gcctaccagc aagtgatcca 960
gccggctctg cctgggcagc ccctgcctgg agccagtgtg agaggcctgc accctgtgca 1020
gaaggttatc ctgaattatc ccagccccctg ggaccaagaa gagaggcccg cacagagaga 1080
ctgtcctctt ccggggcttc caaggcacca ggaccagcca catcaccagc cacctaatag 1140
agctgggtgct cctggggagt ccttgagtg ccctgcagag ctgagaccac aggttccccca 1200
gcctccgtcc ccagctgctg tgccatagacc ccctagcaac cctccagcca gaggaactct 1260
aaaaacaagc aatttgccag aagaattgct gaaagtcttt atcacttatt cgatggacac 1320
agctatggag gtggtgaaat tcgtgaactt tttgttggtg aatggcttcc aaactgcaat 1380
tgacatattt gaggatagaa tccgaggcat tgatatcatt aaatggatgg agcgctacct 1440
tagggataag accgtgatga taatcgtagc aatcagcccc aaatacaaac aggacgtgga 1500
aggcgctgag tcgcagctgg acgaggatga gcatggctta catactaagt acattcatcg 1560
aatgatgcag attgagttca taaaacaagg aagcatgaat ttcagattca tccctgtgct 1620
cttcccaaat gctaagaagg agcatgtgcc cacctggctt cagaacactc atgtctacag 1680
ctggcccaag aataaaaaaa acatcctgct gcggtgctg agagaggaag agtatgtggc 1740
tcctccacgg gggcctctgc ccacccttca ggtggttccc ttgtgacacc gttcatcccc 1800
agatcactga ggccaggcca tgtttggggc cttgttctga cagcattctg gctgaggctg 1860
gtcggttagca ctccctggctg gttttttctt gttcctcccc gagaggccct ctggccccc 1920
ggaaacctgt tgtgcagagc tcttccccgg agacctccac acacctggc tttgaagtgg 1980
agtctgtgac tgctctgcat tctctgcttt taaaaaaacc attgcaggtg ccagtgtccc 2040
atatgttcct cctgacagtt tgatgtgtcc attctggggc tctcagtgt tagcaagtag 2100

```


PF-0509 USN

```
ataatgtaag ggatgtggca gcaaatggaa atgactacaa acactctcct atcaatcact 2160
tcaggctact tttatgagtt agccagatgc ttgtgtatcc tcagacccaaa ctgattcatg 2220
tacaaataat aaaatgttta ctcttttcta aaaaaaaaaa 2260
```

<210> 121

<211> 1602

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1821233CB1

<400> 121

```
gccccagacc gtgcgcgaca cgctgctggc gctgcaccag cacggccact cggggccctt 60
cgagagcaag ttttaagaagg agccggcctt gactgcaggc aggttggttg gtttcgaggc 120
caacggggcc aacgggtcta aagcagttgc aagaacagca aggaaaagga agccctctcc 180
agaaccagaa ggtgaagtcg ggccccctaa gatcaacgga gaggcccagc cgtggctgtc 240
cacatccaca gaggggctca agatccccat gactcctaca tcctcttttg tgtctccgcc 300
accacccact gcctcacctc attccaaccg gaccacaccg cctgaagcgg ccagaatgg 360
ccagtcccc atggcagccc tgatcttagt agcagacaat gcagggggca gtcattgcctc 420
aaaagatgcc aaccaggttc actccactac caggaggaat agcaacagtc cgccctctcc 480
gtcctctatg aaccaaaagaa ggctgggtcc cagagaggtg gggggccagg gagcaggcaa 540
cacaggagga ctggagccag tgcaccctgc cagcctcccg gactcctctc tggcaaccag 600
tgccccgctg tgctgcaccc tctgccacga gcggctggag gacaccatt ttgtgcagt 660
cccgtccgtc ccttcgcaca agttctgctt cccttgctcc agacaaagca tcaaacagca 720
gggagctagt ggagaggtct attgtcccag tggggaaaaa tgccctcttg tgggctccaa 780
tgtcccctgg gccttttatgc aaggggaaat tgcaaccatc cttgctggag atgtgaaagt 840
gaaaaaagag agagactcgt gacttttccg gtttcagaaa aaccaatga ttacccttaa 900
ttaaaactgc ttgaattgta tatatatctc catatatata tatatccaag acaaggga 960
tgtagacttc ataaacatgg ctgtataatt ttgatttttt ttgaatacat tgtgtttcta 1020
tatttttttt gacgacaaaa ggtatgtact tataaagaca tttttttctt ttgttaacgt 1080
tattagcata tctttgtgct ttattatcct ggtgacagtt accgttctat gtaggctgtg 1140
acttgcgctg ctttttttaga gcacttggca aatcagaaat gcttctagct gtatttgtat 1200
gcacttattt taaaaagaaa aaaaaagcca aatacathtt ctgacattgt aagattgcct 1260
tactgtctgt cattccttat tgctggcccc tttctcaggc cggagcgaat gtggtggaga 1320
aggaaaggaa atgatcgaac gggcatgttg tcaagtgggc atgccactgg gaaataccac 1380
cagtttaccc tgaaacattg tcctcagagg agtaggaaag tggattttga atctctattt 1440
tgctcaaaaag ttcagttcct gagatactga tgactgagag tgctgctggg aaattttcag 1500
gattgtgtgg tcttttgggg ttttttgttt tttttttttt aagacaaagt tgaccgctgt 1560
tcactgtcca cgtgatcagt tgtaagatta caatgctgca tc 1602
```

<210> 122

<211> 1655

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1877278CB1

<400> 122

```
gcgggcgcac tccggtgcaa gcgaggacac gacacatgca gtggcttctg gactgcgcga 60
tgactggagc caagtaactt ctaggctctg agacaagagg aagagaagat gaaggaagac 120
```


PF-0509 USN

```

tgtctgccga gttctcacgt gcccacagc gacagcaagt ccattcagaa gtcggagctc 180
ttaggcctgc tgaaaaccta caactgctac catgagggca agagcttcca gctgagacac 240
cgtgaggaag aagggactct gatcatcgag gggctcctca acattgcctg ggggctgagg 300
cggcccatcc ggctgcagat gcaggatgac cgggagcagg tgcacctccc ctccacctca 360
tggatgcca gacggcctag ctgccctcta aaggagccat cgccccagaa cgggaacatc 420
acagcccagg ggccaagcat tcagccagtg cacaaggctg agagttccac agacagctcg 480
gggcccctgg aggaggcaga ggaggcccc cagctgatgc ggaccaagag cgacgccagt 540
tgcatgagcc agaggaggcc caagtgccgc gccccgggtg agggccagcg catccggcga 600
caccggttct ctatcaacgg ccacttctac aatcataaga cctccgtgtt tactccagcc 660
tatggatccg tgaccaatgt gagggctaac agcaccatga caaccctgca ggtgctcacc 720
ctgctgctga acaaatttag ggtggaagat ggccccagtg agttcgact ctacatcggt 780
cacgagtctg gggagcggac aaaattaaaa gactgcgagt acccgctgat ttccagaatc 840
ctgcatgggc catgtgagaa gatcgccagg atcttcttga tggagctga cttgggctgtg 900
gaagtcccc atgaagtcgc tcagtacatt aagtttgaag tgccgggtgt ggacagtttt 960
gttgaaaaat taaaagaaga ggaagaaaaga gaaataatca aactgaccat gaagttccaa 1020
gccctgcgtc tgacgatgct gcagcgccctg gagcagctgg tggaggccaa gtaactggcc 1080
aacacctgcc tcttccaaag tccccagcag tggcaggtgt acactgagcc ctggttgtgtg 1140
gccccggccg gtcacattga ctgatggcca ccgcctgacg aatcgagtgc ctgtgtgtct 1200
acctctctga agcctgagca ccatgattcc cacagccagc tcttggctcc aagatgagca 1260
cccacaggaa gccgaccag gcctgagggg ccaggaactt gctgggtcag atctgtgtgtg 1320
ccagccctgt ccacaccatg cctctcctgc actggagagc agtgcctggc cagccctgc 1380
ggcttaggct tcattgctt gcacattgcc tgtcccagag cccctgtggg tccacaagcc 1440
cctgtcctct tcttcatat gagattcctg tctgccctca tatcacgctg cccacagga 1500
atgctgctgg gaaaagcagg gcctgccagc aggtatgaga tctagcctgc tttcagccat 1560
caccttgcca cagtgtcccc ggcttctaag cctccaatat caccctgtga gcctcgaca 1620
gctcagcccc aacacagagg tgagaccagg aataa 1655

```

<210> 123

<211> 2225

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1880692CB1

<220>

<221> unsure

<222> 10, 18, 20, 29, 37, 44, 56, 59, 64, 69, 74, 77, 79, 87, 93, 97, 110-112

<223> a, t, c, g, or other

<400> 123

```

cttttagaan cttggggncn tttgaccang ccccaanac caangtttca ggcccnttna 60
taanctacnc gatncangnc ggttcangaa acnccnaaa aattggatcn nnttgatcac 120
atgccaagct gatggagtgg ctaaagagta cagattatgg aaaatatgaa ggactaacia 180
agaattacat ggattattta tcccgactat atgaaagaga aatcaaagat ttctttgaag 240
ttgcaaagat caagatgact ggcacaacta aagaaagcaa gaagtttggt cttcatggaa 300
gttcggggaa attaaactgga tctacttcta gtctaaataa gctcagtgtt cagagttcag 360
ggaatcgagc atctcagtca tcttcctgtg tggatatggg aaacatgtct gcctctgac 420
tcgatgttgc tgacaggacc aaatttgata agatctttga acaggtacta agtgaactgg 480
agcccctatg tctggcagaa caggacttca taagtaaatt tttcaaacta cagcaacatc 540
aaagtatgcc tggaactatg gctgaagcag aggacctgga tggaggaaca ttatcacggc 600
aacataattg tggcacacca ctgcctgttt catctgagaa agatatgac cgccaaatga 660

```


PF-0509 USN

```

tgattaaaat atttcgctgc attgagccag agctgaacaa cctaattgca ttaggagaca 720
aaattgatag ctttaactct ctttatatgt tagtcaaaat gagtcatcat gtgtggactg 780
cacaaaatgt ggaccctgct tctttcctaa gtactacatt gggaaatggt ttggtgactg 840
tcaaaaaggaa ctttgacaaa tgcattagta accaaaataag gcaaattgaa gaagtaaaga 900
tctcaaaaaa gagtaaagtt ggaattcttc catttggtgc tgaatttgaa gaatttgctg 960
gacttgacaga atcaatcttc aaaaatgctg agcgtcgtgg agacctggat aaagcatata 1020
ccaaacttat cagaggagta tttgttaatg tggagaaagt agcaaataaa agccagaaga 1080
ccccaggga tgtggttatg atggaaaact ttcaccatat ttttgcaact ctttctcgat 1140
tgaaaatctc atgtctagaa gcagaaaaaa aagaagccgc tataaaccac aaattcttct 1200
gatgttaata ttattagcct cccactaaag tctacttacc aaaaccatgt gggctattag 1260
attgccccca agagctccaa atgtataata tacaagagcc tttgcctgac ttgaattaac 1320
accaagtcca gaggcataca gaaagccaag agcagtctgt cccttgggag agccttctct 1380
agtcagcttc tcaaacatct ctctcgctgc ctggatattc tgtggcaagt aatcaccaaa 1440
taaaagagca tatgacactc tctccagggc tttggtatgg ttcattgctg ctgccttttg 1500
gagataccga tatgcttctc ttttttggct tttcttattg cttccattaa ggattttcat 1560
tccagtttga tacatcattt ctgcttctct catctgccgt ctcttagcag cctcttcttc 1620
agtttcacaa aagccccact tttcatctgc tttgtagtca taggtttag caccacacag 1680
tctgccatct tccctcccat ctgatgtaca ttcatacatc tccttatcta ggaaaagaaa 1740
agggaagtgg cagggctccc catgtgctgt gccttcaatg gcggtcaaag ctggtttccg 1800
tactttcttt ggctcttcat agtccttggt ttctggattt ggagactcta gaaagctgat 1860
atcttctgtg acactttccc cctcttggct cttaggctg tcttctctt cttgaataga 1920
ggatttctaatt tcagattctt ctgaatcaaag aaatatttga ccagcaacta ctctgcctgc 1980
agtagtatgg tcctttactg actcatctga tgtcaaagta gtcttggaat ctaaggattc 2040
atcctggctg ccttcttcat ccgaggacgc cgaggccaag ctcagcagca ccgcacacag 2100
cagcagcgtc agccctatcc ggaccgcat cctcctctcg gggccggtgc caaccctag 2160
agctgtcgcc ttgcctctg ccaccacgga ctcagccacc accgccgct cgcgctgct 2220
cttcc 2225

```

<210> 124

<211> 1516

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2280456CB1

<400> 124

```

cggatttaaa cctcagcggg cggcgggttaa ccgcaggctc ggcgcgtggg ccggcagtg 60
gcctgcgcaa gttacgcgaa agctaacaga atctgcggtg ctctgctggc gactggcatg 120
acgcggtgca gagagcggac ttccgcgacg cgggtgtttt tttttacttg aatgtaaata 180
ccaatcaaga tacattgaaa taagaaggct ctacagtgtg ggggaagcaa tggagaact 240
tctacctgat ggacaaatat gggctaatat ggatccagaa gaacgaatgt tggcagctgc 300
tacagctttt acccacatct gtgcagggca ggggtgaagga gatgtcagga gagaagccca 360
atctatccaa tatgatccct acagtaaagc ttcagtagcc ccagggaagc gacctgctct 420
tcctgtgcaa ctacagtacc cacatgtaga aagtaatgtc ctttcagaaa cagtctctga 480
ggcctcccaa agactccgaa agccagtgat gaagagaaaag gtgctgcgca gaaagccaga 540
tgggggaagta ttagtaacag atgagtcgat tatcagtga tacaatctg gtacagaaaa 600
tgatcaggat ctctgggact taagacaaag gctgatgaat gtacagttcc aggaagacaa 660
ggaatcttca tttgatgttt cacaaaaatt taacctacca catgaatacc aaggaatttc 720
tcaagatcag ctcatctgct ctctacaaag agaaggaatg ggctctccag cttacgaaca 780
agacctgatt gttgccagca gaccgaagtc ctttattctc ccaaagctgg accagttaag 840
ccgaaaccgg ggcaagacag accgggtagc ccggtatttt gagtacaac gggactggga 900
ctcaatacgt ttacctggtg aagatcatag aaaggaatta cgctggggtg tccgagagca 960

```


PF-0509 USN

```
gatgctttgt cgagcagaac cccaatccaa acctcagcat atatatgtcc caaacaatta 1020
tctagtacca acagagaaga aaaggtctgc actccgttgg ggtgttcggt gtgaccttgc 1080
aaatggtgtc ataccagga agcttccctt ccctctttct ccttctttaa tctttttaa 1140
cttctttcac aggattgttt gagataacct agctctttat atcttccctt ttaaataгаа 1200
acaactgtct tgagaagctc ttcgaaacat tttatggtaa ggacttcacc tatcattggt 1260
ctttcctagc tatatatcac attggtatca gatgatactt ccaaattgcc actcaaatcc 1320
agcaattgca agataaatca tatcagagaa agaacaacag acctggtctt tctattttgt 1380
caaattagta cgggcccttt gagtcctgta acttttttta cctatcaata tgagttgctg 1440
tgcttcagtg tgtgtttttt aagttgctgg gcattacact taccaattaa agaatttttg 1500
aaattcaaaa aaaaaa 1516
```

<210> 125

<211> 1635

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2284580CB1

<400> 125

```
cgggggagct gggagcccga cgtttccggg agcgccgcgt ggtagcgct ggcggctttt 60
ggcatggcga ctttttctgg cccggctggg ccaatcctgt cgcttaatcc gcaggaagat 120
gtcagagttt aaaaggaggt ggcgcaggtt cgcaagcgca taaccagcg aaaaaaaca 180
gaacaactta ctcttgaggt agtctatgtg cgccacctac ctaacctact tgacgaaacc 240
cagatctttt catatttctc ccagtttggc actgtgacac gggttcaggct gtccagaagt 300
aaaaggactg gaaatagcaa aggctatgca tttgtggagt ttgagtctga ggatgttgcc 360
aaaatagttg ctgaaacaat gaacaactac ctgtttgggt aaagactctt ggagtgtcat 420
tttatgccac ctgaaaaagt acataaagaa ctctttaaag actggaatat tccatttaag 480
cagccatcat atccatcagt gaaacggtat aatcggaatc ggacactaac aaaaaagcta 540
cggatggagg agcgatttaa aaagaaagaa agattactca ggaagaaatt agctaaaaaa 600
ggaattgact atgattttcc ttctttgatt ttacagaaaa cggaaagtat ttcaaaaact 660
aatcgtcaga cgtctacaaa aggccaggtt ttacgtaaga agaagaaaaa agtttcagg 720
actcttgaca ctcttgagaa gactgtggat agccagggcc ccacaccagt ttgtacacca 780
acatttttgg agaggcgaaa atctcaagtg gctgaactga atgatgatga taaagatgat 840
gaaatagttt tcaaacagcc catatcctgt gtaaaagaag aaatacaaga gactcaaaaa 900
cttacacatt cacggaaaaa aagacgaaga agcagcaatc agtgattttc aatgtattat 960
atctcttttg aaaaatataa tatttttatg agagtggact ttgtatttca ctaggtaaca 1020
tggaatacaa cttttgacaa gattttcaga ggaaaaatac actgttttgt caagttaagg 1080
aaagcagtgt gtaatttttg attgcctgcc cttggctgaa atacaggggt gcataccatc 1140
ttgcagtggc ttggctgaca ttgcctcttt gtcttgccct ctagttttct tttgatattt 1200
catagctctc cttagtttac tctgcctgga tagaaagttg accactaact gcaggtttaa 1260
gtactaaact gcagcctttt ctgtcgccag caattaaaga ccaccaatct tgtttgtcca 1320
tctacatggt ttgtcgggga catttaactc atggaggtgc tttagatttc aacatcagat 1380
ggttgaagct ggaagttaa ttatatgtag agtgagaagg cagttccagt tttagcacag 1440
atctgtttat gtgttcagat tttaatagag attcaaaaat gactcatttt taccaataat 1500
gttaaatag ttttggttgt gctagcatga attaataacc accattttat accagtatca 1560
tcagtgaaga attgtatttc aagattcaaa caataaccag caattaaact tttttctaca 1620
atgtaaaaaa aaaaaa 1635
```

<210> 126

<211> 2673

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2779172CB1

<400> 126

```

caggggggctt tcctcagaga atatctttat gtttacaaga atgtaagtca gctgtcacca 60
gatggtcctt tgccacagct tcctttaccg tatattaaca gttcagcaac acgggttttt 120
ttttggccat gacagacgac cagcggatgg tgaaaaacaa gcagctactc atgtaagtct 180
tgatcaagaa tatgattctg aatcctctca gcagtggcga gaacttgagg aacaagttgt 240
ttctgtggtt aacaaaggag taattccatc caattttcat cccacacaat actgtttgaa 300
cagttactca gataattcaa gatttccact tgcagttgta gaagaaccaa ttacagtgga 360
agtggctttt agaaaccctt tgaaagttct acttttggtg actgatttgt cattgctttg 420
gaagtttcat cctaaagatt tcagtggaaa ggataatgaa gaagttaaac aactagttac 480
aagtgaacct gaaatgattg gagctgaagt tatttcagag ttcttaatta atggcgaga 540
atcaaaagtg gcaagactaa agctctttcc ccatcacata ggggagctgc atattctggg 600
agttgtttat aatcttggca ctattcaggg ctctatgaca gtagatggca ttggtgctct 660
tcccggatgt cacacaggaa aatattcctt gagtatgtca gtccgaggga agcaggattt 720
agaaattcaa ggctctcgac ttaacaacac aaaagaagag aaaacatctg ttaaataatgg 780
ccctgatcga cgtttagatc ccataatcac agaagaaatg ccactgttgg aggtgttctt 840
tatacathtt cctacagggc ttctctgtgg agaaatccga aaagcatatg tagaatttgt 900
caatgtcagc aaatgtccac ttactggttt gaaggttgtt tctaaacgtc cagagttctt 960
tactttcggg ggtaatactg ctgttctaac accactaagt ccctcagctt ctgagaattg 1020
tagtgcttac aagactgttg tgacagatgc tacctctgtg tgtacagcac tcatatcatc 1080
agcttcttct gtagactttg gcattggcac aggaagtcaa ccagaggtga ttctgttcc 1140
ccttcttgac actgttcttc taccgggagc ctcagtgtag ctgccaatgt gggtacgtgg 1200
gcctgatgaa gaaggtgtcc atgaaattaa ctttttgttt tactatgaaa gtgtcaaaaa 1260
gcagccaaaa atacggcaca gaatattaag acacactgca attatttgta ccagtcggtc 1320
tttaaattgta cgggccactg tctgcagaag taattctctt gaaaatgaag aaggcagagg 1380
aggcaatatg ctagtctttg tggatgtgga aaataccaat actagtgaag caggcgtaa 1440
ggaattccac atagtgaag tatcaagtag tagcaaacac tggaagttac agaaatctgt 1500
aaatctttct gaaaacaaaag ataccaaaact tgccagtagg gagaaggga agttttgctt 1560
taaggcaata agatgtgaga aagaagaagc ggccacacag tcctctgaaa aatatacctt 1620
tgcagatatc atctttggaa atgaacagat aataagttca gcaagcccat gtgcagactt 1680
cttttatcga agtttatctt ctgaattgaa aaaaccacaa gctcacttgc ctgtgcatac 1740
agaaaaacag tcaacagagg atgctgtgag attgattcaa aaatgcagtg aggtagattt 1800
gaatatgtc atattatgga aggcatacgt tgtggaagac agtaaacagc ttattttgga 1860
aggccaacat catgttattc ttgcactat aggaaaagaa gccttttcat atcctcagaa 1920
acaggagcca ccagaaatgg aactattgaa atttttcagg ccagaaaaca ttacagtttc 1980
ctcaaggcca tcagtagagc agctttctag tctcattaaa acgagtcttc actaccaga 2040
atcatttaat catccatttc atcaaaaaag cttttgttta gtaccagtca ctcttttact 2100
ttccaattgt tctaaggctg atgtagatgt catagttgat cttcggcata aaacaacaag 2160
tccagaagca ctggaaatcc atggatcatt cacatggctt ggacaaacac agtataaact 2220
tcaacttaaa agccaggaga ttcacagtct gcagctgaaa gcatgctttg ttcatacagg 2280
tgtttataac cttggaactc ctagggtatt tgccaagtta tcggaccaag ttacagtgtt 2340
tgaaacaagt cagcagaatt ccatgcctgc cctgatcatc atcagtaatg tgtgacaact 2400
tggaattttg tactgaaatc cacaataatc agtttttgct ggatgggttt tacagcagta 2460
tttgatatac ctaacttggt atggaggttg attgatattc gatccctgca aaatactttg 2520
acttgtcatt ttgttgatga tgcaaagcac gttggactga gaatacttaa cattctttct 2580
ctgtatctct taaaccctgg gataaattac atgcgcacaa tacagggtat ccgcatattt 2640
gtgcacctta ttaagcccca tcttaagaga aca 2673

```

<210> 127

<211> 2206

<212> DNA

PF-0509 USN

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3279329CB1

<400> 127

```
gtctggcctt tgcactagta gatcattgct gacataggtc agtttagaga cctttctgtg 60
ttaatgcctc ctggtactgt cttaagatac gtacagtgtc tgtttttaga tctatgcata 120
tgtcatgaag ctccctgtgg gctctgcatg aagctgctgc tttgtttttg ggtaacaga 180
tgtgcctgtc aactagcatg tgtattgtcc aaattccata aacttaaggt ttttaagggc 240
tgtgtgggtt ctgagctcta tgtgtctttc ctatccttgt accttcaaag ggtgagaaat 300
gagatttata catccaaagt tagtctgata aatatggctt tttgtttctc catgtaacct 360
agactgtcaa aaataagtga tggtgataag taggcctgga gcctcagctt ctgtaaactc 420
cattcctaaa attttgctag actcgtgttg gcaaaaacaa atacctgtgg attgtcctta 480
aggcttttaa tcagatacct gtgttgctgt tagctgaact gtagtgaagc atcgatccaa 540
atcggctctc tgaagtatca gttatgcttt tgagtttaga aaatacttag gtgtagtct 600
agtcttccca ttcatagaatc agtgtatgtc catatcagag agcctcaact tcttttttct 660
tcctttttaa aaatgatttt agtgttttga tttagtgtat actacatagt tcagtattat 720
tggctttacc agtgttgaca gaaaaatttt aaatctccag ttgcaaacag caatggatta 780
ggatatggaa ataaaatcat ggtgacatca ctgctgagtt atcttaaacc tctgtactt 840
aattctccat attgaaatgc atactcctcc acatacatgg cttccaagta aaggcaattg 900
tagagggggc ctgtctatcc cagtatgggt ggattttaaa catatctgtg tttcgttat 960
tttggaact gattaatatt tacaattttt tttgtttatg agttattttg atactaagaa 1020
aagagagaat ctagaacatc ttgcagttga aatacaaat ttattctttt ggtcttggga 1080
gaatttaagc agtctatgca actcatcaaa tggtgagaaa tagccctccg aggttccagt 1140
aagctttcag tgactttgat acctcccaa gtttcttgag ttgctgcttg ttaacaccca 1200
gcttttaact gagtgtttgc tcctgatggg ttaggagatt ttcatgttgt atcacactgt 1260
caagttttat tttgtctttt tatccctccg tggatgtgag tttgaaacaa gcacggtaca 1320
gtaatcctgc ctgatagagt agtctggaat gagaattact ttttgggtga gagagttctc 1380
cattttaatg tttctaaagt ttttcatatg aacttggcat tggaaaaggg aggtaaagaa 1440
aaaggacgtt tactaaaagc agtgtctact cttccccttt gtgagtgttt attcatggct 1500
aatgaaaaaa agagaaggac tcttgggttt tgtgttgcca tgtaagcat ggagagggat 1560
gcttgacagc atgctaattg aagccagagc aagtatgtcc ttcacaggt aatcaggaac 1620
tcttcagttg aagctgagga actaactgat tagttgttga tcataatata attggttaca 1680
aagtggaagt gccagctggc ttaagtacc aaagaaaaga atgcagcagc ctaacttagt 1740
gttaccatat gttactgaat ttgaaactga ccttttttcc caccctactt cacacaccta 1800
aaactctttt cttgtcagac caaagagcga aaagaaaaaa aaaagtaaaa cactttacca 1860
atctgtcact caggtacaat tttgtgggtga gatttttgtc tgttctcttt gtattgctct 1920
taagagtcct ttctcagcat attattctgc cattgcctct gtcttccttg gggcacctca 1980
gctctggatg ctaccccttg gatattctact gctgttatgt gaatgatagg aggttaagtga 2040
ccattatagt aagggctctt tgtaaaaaaa ttcaaaaaat ttaaaaagga tgtatacatt 2100
ttatagtctg gctatcagtt tgatatcttg ctgtcaagta tgtttctcaa tctgtattta 2160
tccatcccat caataaatgt taatggtaaa acactcaaaa aaaaaa 2206
```

<210> 128

<211> 1426

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3340290CB1

PF-0509 USN

<220>

<221> unsure

<222> 65, 69, 72, 87, 1365

<223> a, t, c, g, or other

<400> 128

```
gcccaggccg gccccgcggg gcgggtcgcgg ccgtgacggc ggctccgggc ccggctcccc 60
ttccnctcnc gnctccccctt ccgcgcncct cccgccggag atgaggggaa gatgtccgtg 120
tcagggtctca aggccgagct gaagttcctg gcgtccatct tcgacaagaa ccacgagcga 180
ttccgcacgc tcagttggaa gctggacgag ctgcactgcc agttcctggg gccgcagcag 240
ggcagccccgc actcgtctgcc gccgccactc acgctccact gcaacatcac ggaatcctat 300
ccatcttctt caccgatatg gtttgtggat tctgaagacc caaatctgac atcagttctg 360
gaacgtctag aagatactaa gaacaacaat ttgaatggga caacagaaga agtgacttca 420
gaagaagagg aagaagaaga agagatggct gaagatatag aagacttaga tcactatgag 480
atgaaggaag aagagcctat tagtgggaaa aagtcagagg atgaaggaat tgaaaaagaa 540
aatttgccaa tattagagaa aattaggaag actcaaaggc aagaccattt aaatggtgca 600
gtgtctgggt cagtgcgaagc ttcagataga cttatgaaag agctcaggga catatacaga 660
tcacagagtt ataaaacagg gatttattca gtggaactca taaatgacag tttatatgac 720
tggtcatgta aactgcagaa ggttgaccct gatagtcctt tgcacagtga tcttcagatc 780
ttaaagaaaa aagaaggcat agaataatatt ttgcttaact tctcttttaa ggataacttt 840
ccatttgatc ctccatttgt tcgagtgggt ttacctgttc tctcaggagg gtatgtattg 900
ggtggaggag cattatgtat ggaacttctc acaaaacaga atcaatataa tctagcaaga 960
gccaacaat cctataattc cattgtacag atacatgaga aaaatggctg gtacaccctt 1020
ccaaaggaag atggctaaat atgttgactg ttgtatgttt ggactaatgt tgttttaaag 1080
aaaatctttc caacatgcag acaaaagctt tgagtgcctt tattacagca gtaccgaaga 1140
tgtagttaa tagatatttt agtggataat ctgtcatctg acatccagta taagttacag 1200
ccttcgcatt ttgctcattt tagatatctt ggactgagca gtggggcctt tactgtattt 1260
ttcctgataa atacacatac tggccactcc ttatctcttt ttcttgaaaa gtgaactttt 1320
taaagcagcc aagtcaacat caggctactg aagttgaggc tttangggta ctttcctata 1380
ttgagcccat gggggtagag gatttgcaat atattgggtc attttc 1426
```

<210> 129

<211> 1703

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3376404CB1

<400> 129

```
gcactttcgg caatcacgta tcgggtcgcac ccacgcgtcc ggaggtcagg agatcgagac 60
tagcctggcc aacacggtta aaccccgctc ctactaaaaa tacagaaaat tagccgggcg 120
tggtggcacc tgctgtaat cccagctact caggaggctg aggcaggaga atggcttgaa 180
cctgggagac ggagcttgca gtgagccgag attgcgctcc agcctgggcg acagagcgag 240
actctgtctc aaaaaattaa aaaaaaaaaa aataataaca atgaatgaag ctggacggac 300
ttcgcgtgca ccgcgggtcag ctccgggtct gctggggggt ctgggtcagc tcagggtcca 360
ggaaccgagg ccaacggcac cccgtgctgc gctgggggtga ggggtctgcc ctggggtctc 420
gggggttcagg gctaggtcac ggaggagtgc gctctgggcg cttccttctt gaggagagga 480
gctgggcagg ccgggccgac ggggttgggc gcatagccgg gcctgtgctc atctccagca 540
taaaactcca cttcatggag cctgcacctc gctcgtgctc caacgcttct gccaccgccg 600
accacggccc tgcgccccag ccaggcctga ggacatgagg cggccggcgg cggtgccgct 660
cctgctgctg ctgtgttttg ggtctcagag ggccaaggca gcaacagcct gtggtcgccc 720
caggatgctg aaccgaatgg tgggcgggca ggacacgcag gagggcgagt ggcctgggca 780
```



```

agtcagcatc cagcgcaacg gaagccactt ctgcgggggc agcctcatcg cggagcagtg 840
ggtcctgacg gctgcgcact gcttccgcaa cacctctgag acgtccctgt accaggtcct 900
gctggggggc aggcagctag tgcagccggg accacacgct atgtatgccc ggggtgaggca 960
ggtagagagc aacccccctgt accagggcac ggcctccagc gctgacgtgg ccctggtgga 1020
gctggaggca ccagtgccct tcaccaatta catcctcccc gtgtgcctgc ctgaccctc 1080
ggtagatcttt gagacgggca tgaactgctg ggtcactggc tggggcagcc ccagtgagga 1140
agacctcctg cccgaaccgc ggatcctgca gaaactcgct gtgcccata tcgacacacc 1200
caagtgaac ctgctctaca gcaaagacac cgagtttggc taccaacca aaaccatcaa 1260
gaatgacatg ctgtgcgccg gcttcgagga gggcaagaag gatgcctgca agggcgactc 1320
gggcgccccc ctgggtgtgcc tcgtgggtca gtcgtggctg caggcggggg tgatcagctg 1380
gggtgagggc tgtgcccgcc agaaccgccc aggtgtctac atccgtgtca ccgccacca 1440
caactggatc catcgatca tccccaaact gcagttccag ccagcgaggt tgggcggcca 1500
gaagtgagac ccccgggaaa aggagccct tgagcagagc tctgcacca gcctgccgc 1560
ccacaccatc ctgctggacc tcccagcgct gctgttgac ctgtgagccc caccagactc 1620
atgtgtaaat agcgcaccta cctcacaat caaataccct tattttattt atgatctccc 1680
aataaaacgc cggcagagag aga 1703

```

<210> 130

<211> 1118

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4173111CB1

<400> 130

```

agctcgcggt gcgccccgggt ggcgggctgc tttccacgca cctgcacctg cgcagcctcc 60
aaggcgctct tttggaggag ggacttctct ttcggtaacc agctcccttg cggatagtct 120
atgttctcca tataaaccaca gactttccct taattgagat acgtgggact tcactccgtc 180
cccagccccg aaccacaagt gagggcactg cgtttccctga ttgacctctt tggcgattac 240
ttccgcccag gggcctggaa tactggaggc cttcgacgg agaacaaca gaaaggcact 300
tccggtgtct gttcgccagg cgcgggccca gtgggcccga gggcgacat tgttgccgtc 360
gtctttcccc cccagtcctc ggggatggag atgtcgggac tcagcttttc agagatggag 420
ggctgcccga acctacttgg cctactggac aacgacgaga tcatggccct atgcgacacc 480
gtcaccaacc gcctgggtgca gcctcaggac cgccaagatg ctgttcatgc aatattagca 540
tacagtcaaa gtgcagaaga acttctgagg cgtagaaaag tccaccgaga agttatat 600
aagtacttgg caacacaggg gattgttata cctccagcta ctgaaaaaca caatcttatt 660
cagcatgcaa aagattactg gcaaaaagcaa ccacaactga aattgaagga aacgccagag 720
ccagttacaa agacagagga catccaccta tttcaacagc aggtgaaaga agataaaaaa 780
gctgaaaaag ttgattttcg tcgcctagga gaagaattct gtcattgggt ctttgactt 840
cttaattctc agaatccttt tctaggacca cctcaagatg aatggggacc acagcacttc 900
tggtcatgat tgaagcttag gttttattac aacacatcag aacaaaatgt tatgggacta 960
accatggagc cagaatcgtg agccctcggt tgctgtcact agtaaaagaa gaatttcttt 1020
ttctcagccc caacctagat tcacatggac tgaaatgtgc atcttctcct catgggctgg 1080
ctaaggctgg gagtagctgg gactgtccat cgaggaaa 1118

```